

# GENERAL SURFACE IMPROVEMENTS

SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES )

DRAWINGS G-1, G-2, G-3, G-4, G-6, G-7, G-11,  
G-12, G-13, G-14A, G-14B, G-14C, G-14D, G-28, G-29, G-30, & G-31

NOTES All Historical Stamps/Impressions (Street name, Contractor name, and/or date)  
shall be preserved per Standard Drawing SDG-115.

DRAWINGS G-3, G-7, G-11, G-14A, G-14B,  
G-14C, G-14D, G-26, G-27, G-28, G-29, G-30, & G-31

NOTES For designated urbanized communities, sidewalk design (scoring pattern,  
color, texture) to be in conformance with historic design on adjacent properties.

DRAWINGS G-3, G-7, G-11, G-14A, G-14B,  
G-14C, G-14D, G-27, G-28, G-29, G-30, & G-31

NOTES Sidewalk cross slope shall be 1.5%

DRAWING G-1

NOTES Amend Note 3 to read: "Sidewalk cross slope shall be 1.5%"

DRAWING G-2

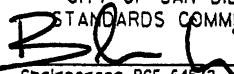
NOTES Amend Note 3 to read: "Cross slope shall be 1.5%"

Add: 4. On the high side of superelevated curves the gutter  
shall be sloped to match cross-section grade of the  
roadway ( see SDDS-105 ).

Add: 5. Place expansion joints at curb returns, adjacent to  
structures and at no greater than forty-five foot ( 45' )  
intervals.

Add: 6. Place weakened plane joints at driveways and at fifteen  
( 15' ) foot intervals from P. C. R. 's.

SHT. 1 OF 3

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE  12-9-03 Chairperson RCE 64572 Date
ORIGINAL		M. V. Rollinger	5-20-92		
NOTES		G. Parkinson	2-07-95	SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "G" SERIES )	DRAWING NUMBER <b>SDG-100</b>
NOTES	SM	Oskoui	12-09-03		

SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES ) cont.

DRAWING G-4

NOTES                      Add: 4.        Sidewalk under drains shall not be allowed.

DRAWING G-7

NOTES                      Add: 3.        Sidewalk shall have a minimum clear width of four feet  
( 4' ) from any obstruction.

DRAWING G-9

NOTES                      For designated urbanized communities, sidewalk scoring (grooves)  
pattern to be in conformance with historic design on adjacent properties.

DRAWING G-12

SECTION A-A              Delete notation, "Base material as shown on plans."

DRAWING G-13


CROSS SECTION          Delete notation, "Base material as shown on plans."

DRAWINGS G-14A, G-14B

PLAN                        Add notation at property line, "Place one-quarter inch ( 1/4" )  
Expansion Joint Filler Material."

NOTES                        Amend note 4 to read: "Driveway shall be a continuous pour from  
back of Curb to Property Line."  
  
Add: 6                      Meter boxes shall not be located within driveway – see W-15.  
  
Add: 7                      Driveway in excess of 150 feet in length from curb face shall  
require minimum of 7 inch P.C.C.

**SHT. 2    OF   3**

Revision	By	Approved	Date	<b>CITY OF SAN DIEGO - STANDARD DRAWING</b>	 Chairperson RCE 64572      Date <b>12-9-03</b>
ORIGINAL		M. V. Rollinger	5-20-92		
NOTES		G. Parkinson	2-07-95		
NOTES	SM	Oskoui	12-09-03		
				<b>SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "G" SERIES )</b>	<b>DRAWING NUMBER    SDG-100</b>

SUPPLEMENT TO REGIONAL STANDARD DRAWING ( "G" SERIES ) cont.

DRAWINGS G-14C, G-14D

NOTES                      Add: 6                      Meter boxes shall not be located within driveway – see W-15.

DRAWING G-17

NOTES                      Add: 6.                      Construction of Alley Apron includes the adjacent six-inch (6") curb.  
Add: 7.                      Refer to G-31 for pedestrian ramps.

DRAWING G-31

NOTES                      Add: 3.                      Where curb height affected by construction varies, the ramp length (Y) shall be governed by the highest curb height (X). The side slope (Z) shall be governed by the curb height on the respective side.


DRAWING G-32

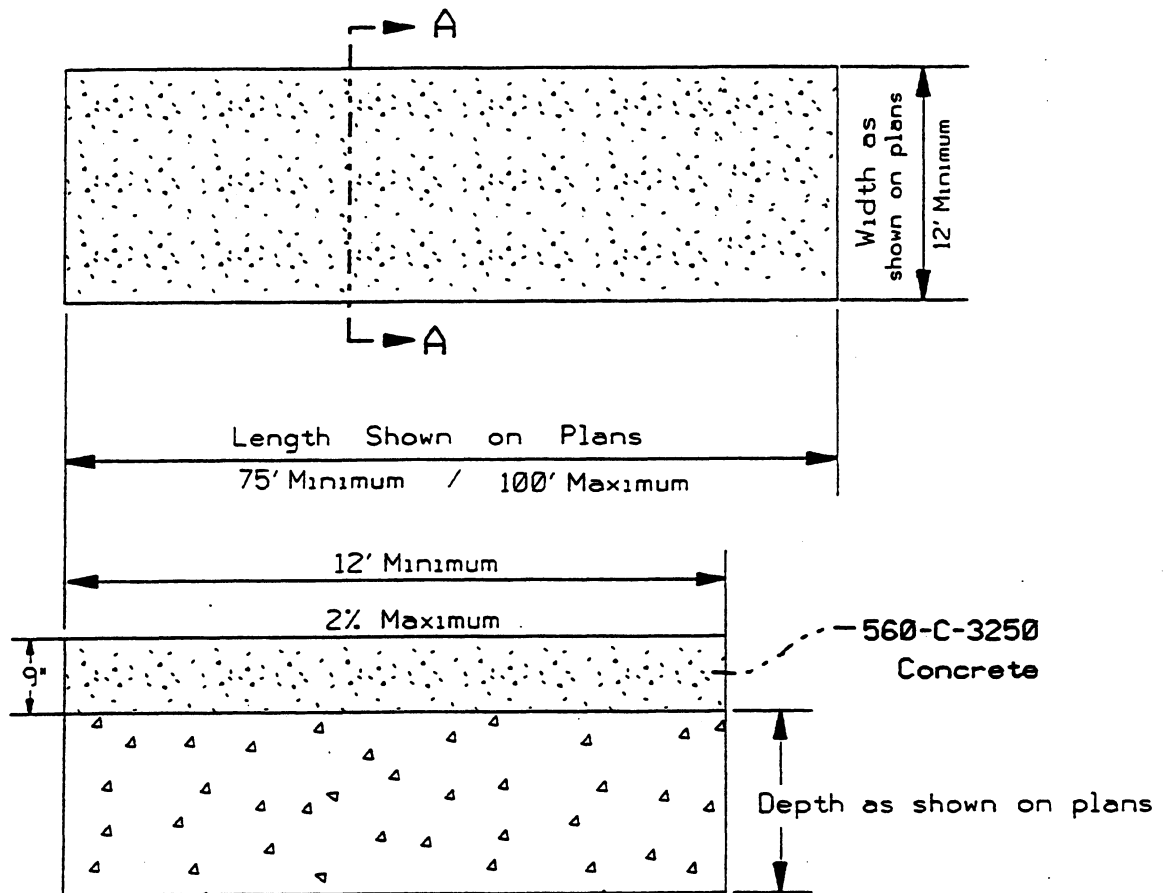
NOTES                      Add: 7.                      For Federally funded projects (new constructions and alterations), the lower end of the 48-inch width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement.

DRAWINGS G-27, G-28, G-29, G-30, & G-31

NOTES                      Do NOT use tables.

SHT. 3 OF 3

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE  12-9-03 Chairperson RCE 64512      Date
ORIGINAL		M. V. Rollinger	5-20-92		
NOTES		G. Parkinson	2-07-95		
NOTES	SM	Oskoui	12-09-03		
				SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ( "G" SERIES )	DRAWING NUMBER <b>SDG-100</b>

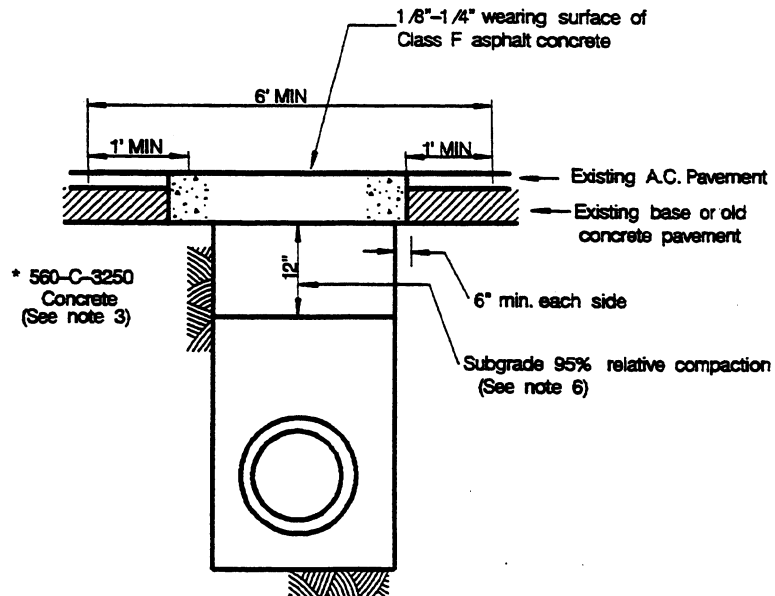


SECTION A-A

NOTES

1. Broom finish parallel with traffic.

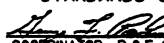
REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>[Signature]</i> 5-2-97 COORDINATOR DATE
ORIGINAL		PARKINSON	5-6-80		
REVISION		J.C.CASEY	6-3-83		DRAWING NUMBER
DRAWING	LEC		6-95		SDG-102
MAX	G.P.	F.BELOCK	4-96		

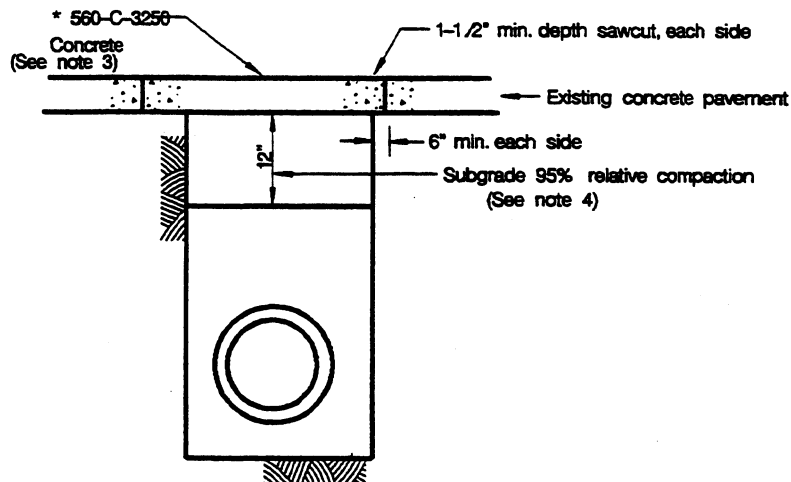


#### NOTES:

1. Existing A.C. pavement shall be sawcut to a minimum depth of 1-1/2 inches or 25% of its thickness, whichever is greater, except lateral trenches in 2-lane residential streets may be jack-hammered if approved by the Engineer. In case of an emergency endangering public safety or property, sawcutting is not required.
2. Prior to placing concrete, paving and base edges shall be trimmed to neat horizontal and vertical lines.
3. Unless otherwise specified, concrete trench cover shall be a minimum of 5-1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.
4. Only asphaltic type curing compound shall be used on the concrete trench cover. Pigmentation is not required.
5. A tack coat shall be applied to the existing A.C. pavement and concrete trench cover prior to placing the new A.C.
6. Subgrade preparation shall be done in accordance with Section 301-1 of the Standard Specifications for Public Works Construction; latest edition.
7. Any street trench 7 feet in width or greater and longer than 100 feet in overall length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG-113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.

\* In four-lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.


Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J.P. Casey	1-24-89			 2-7-95 COORDINATOR R.C.E. 25902 DATE	
				<b>TRENCH RESURFACING FOR ASPHALT CONCRETE SURFACED STREETS</b>		DRAWING NUMBER <b>SDG-107</b>	

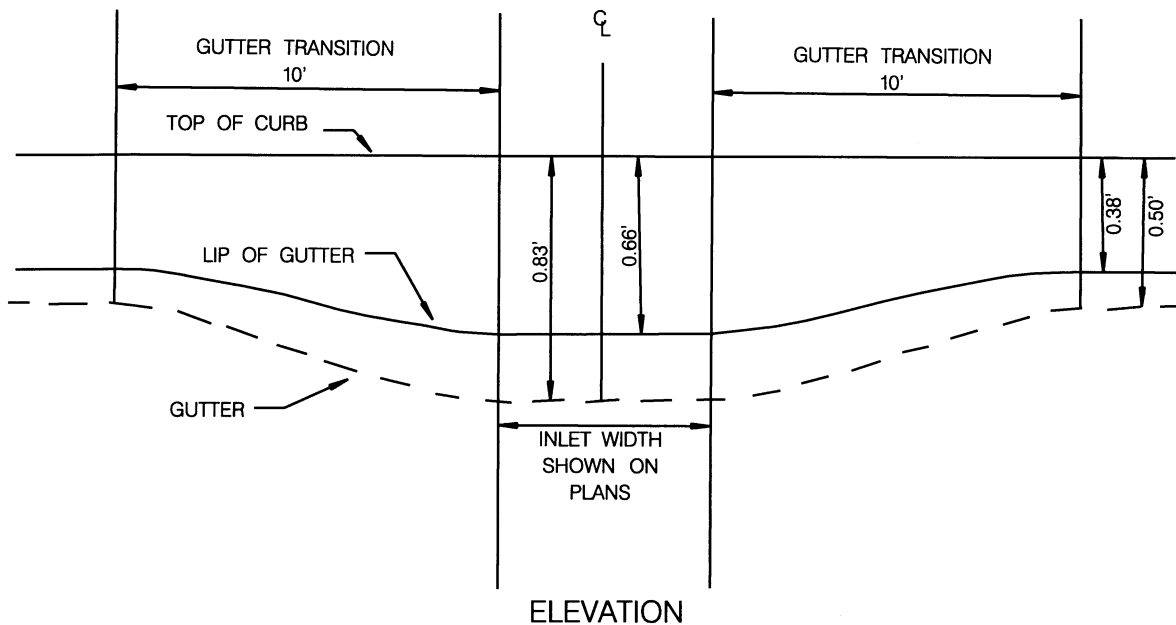
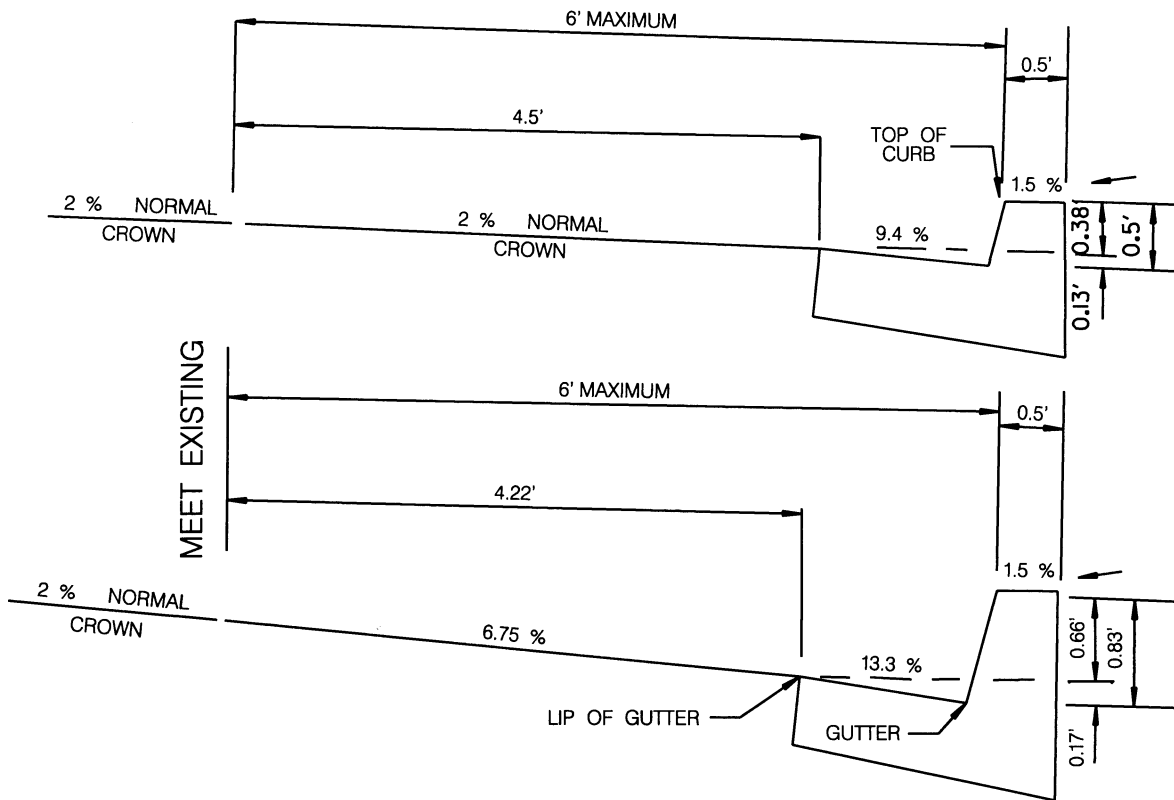


#### NOTES:

1. Removal of the existing concrete pavement for trench excavation shall be done in accordance with Section 300-1.3 of the Standard Specifications for Public Works Construction, latest edition.
  2. Prior to placing concrete, pavement edges shall be trimmed to neat horizontal and vertical lines.
  3. Unless otherwise specified, concrete trench cover shall be a minimum of 5-1/2 inches thick for alleys, 7 inches for local through four lane collector streets and 9 inches thick for all major or greater street classifications.
  4. Subgrade preparation shall be done in accordance with Section 301-1 of the Standard Specifications for Public Works Construction, latest edition.
  5. Any street trench 7 feet in width or greater and longer than 100 feet in length shall be reconstructed with the pavement section for the street classification per Schedule "J" (SDG-113). Street trench sections 7 feet in width or greater but less than 100 feet in overall length shall be resurfaced to a thickness of one inch (1") greater than required by note 3 above.
- \* In four-lane major or greater streets, an approved set accelerating admixture such as calcium chloride, shall be used in the concrete.

FOR A STREET SURFACED WITH ASPHALT CONCRETE, SEE STANDARD DRAWING SDG-107.

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J.P. Casey	1-24-89			 2-7-95 COORDINATOR R.C.E. 25902 DATE	
				TRENCH RESURFACING FOR PCC SURFACED STREETS		DRAWING NUMBER <b>SDG-108</b>	

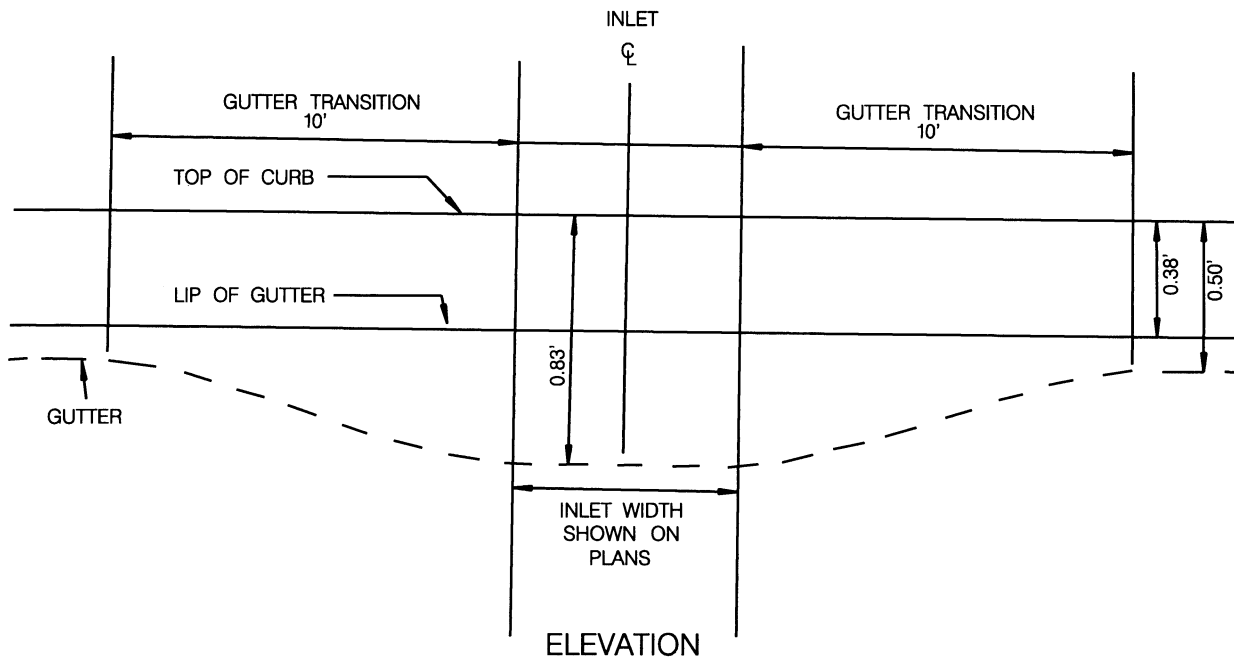
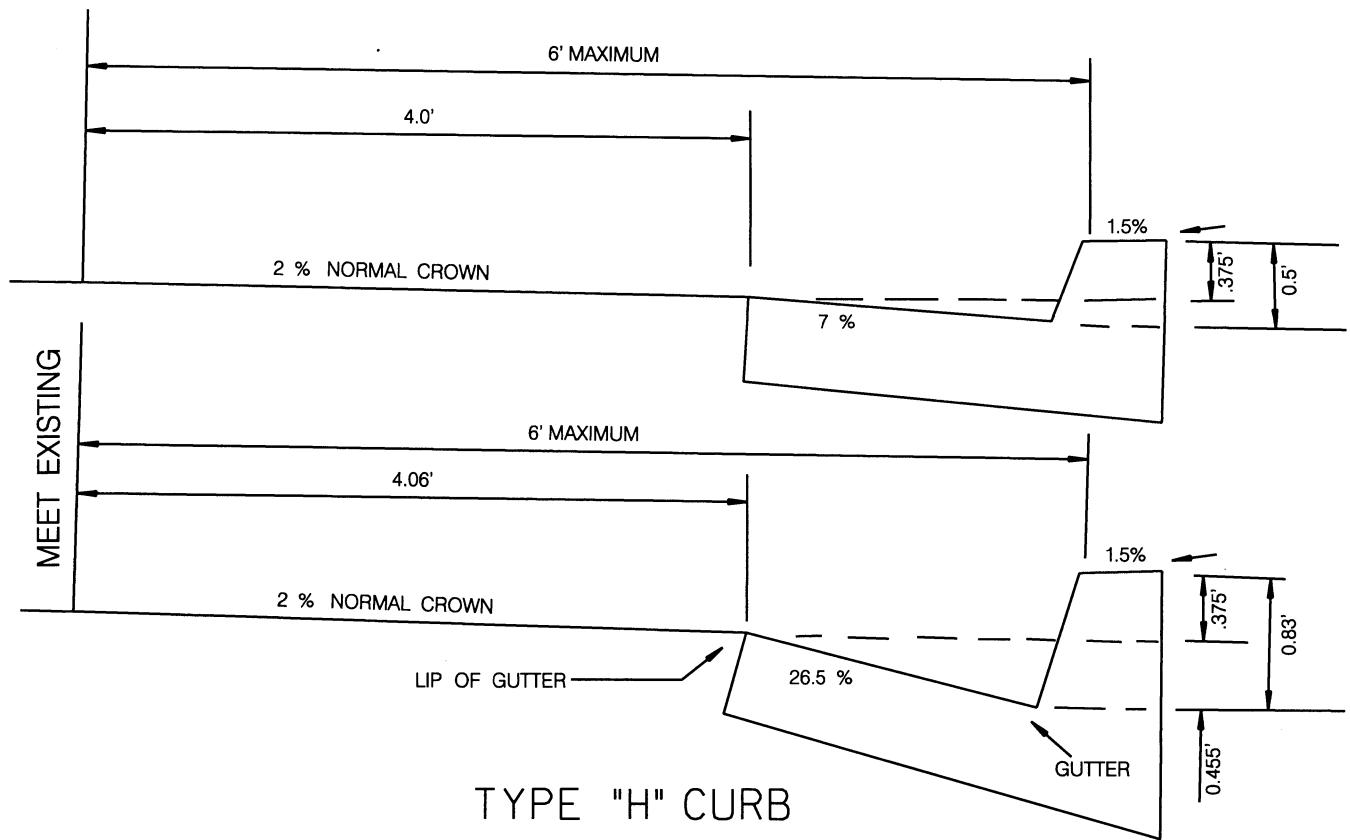


CURB PROFILE – INLET TRANSITION  
NOT TO SCALE

SHT. 1 OF 2

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J.P. Casey	11-8-88			<i>Steve J. Bell</i>	2-7-95
				G CURB PROFILE INLET TRANSITION		COORDINATOR R.C.E. 25902	DATE
						DRAWING NUMBER	<b>SDG-110</b>





CURB PROFILE - INLET TRANSITION

NOT TO SCALE

SHT. 2 OF 2

Revision	By	Approved	Date
ORIGINAL		J.P. Casey	11-18-88

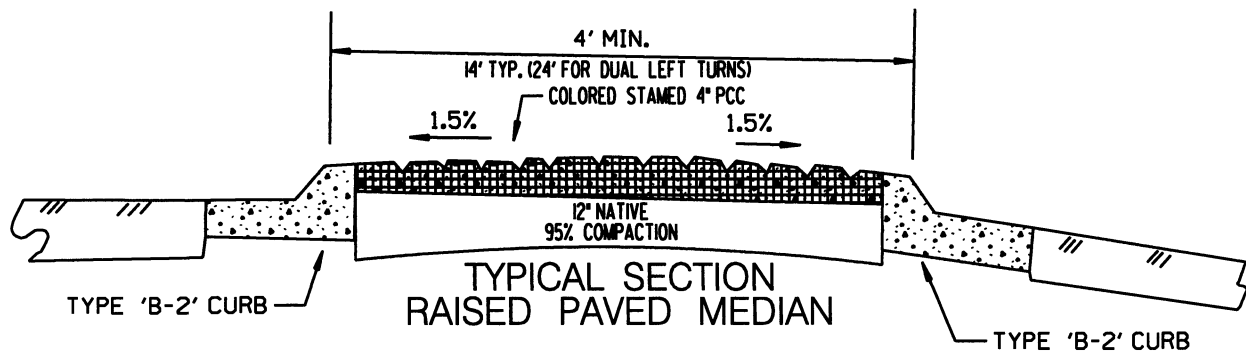
CITY OF SAN DIEGO - STANDARD DRAWING

H CURB PROFILE  
INLET TRANSITION

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

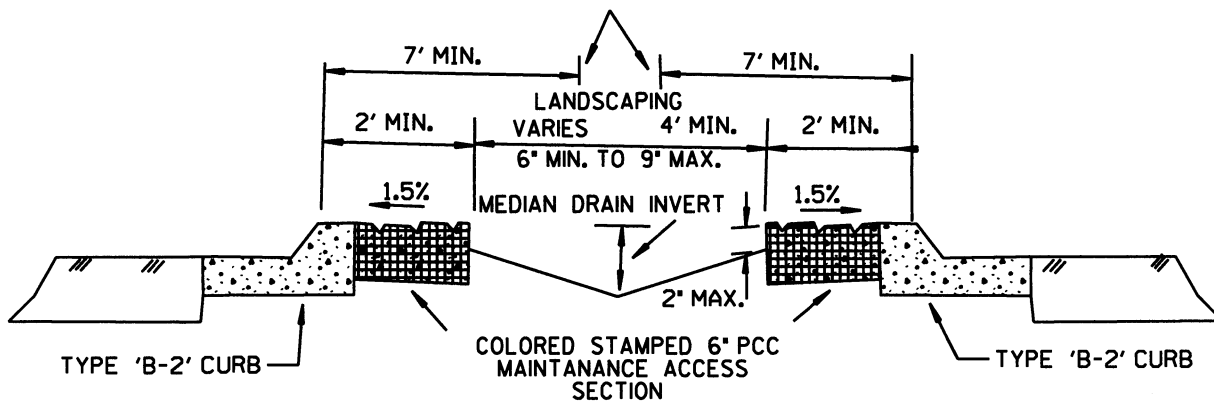
*John F. R. R.* 2-7-95  
COORDINATOR R.C.E. 25902 DATE

DRAWING  
NUMBER **SDG-110**

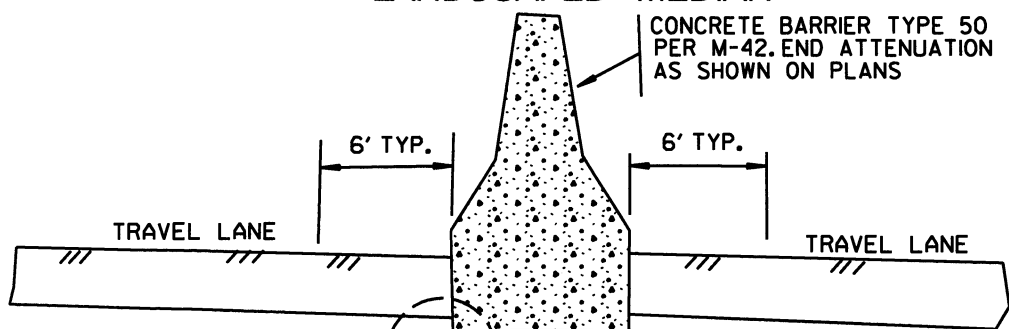


TYPICAL SECTION  
RAISED PAVED MEDIAN

LOCATION OF STREET TREES WHEN PERMITTED



TYPICAL SECTION  
LANDSCAPED MEDIAN



18" SLOTTED CMPC  
WITH 6" HIGH SLOT  
WHERE REQUIRED FOR  
DRAINAGE, SEE  
SHEET 2 OF 2

TYPICAL SECTION  
CONCRETE BARRIER

NOTES:

1. CONCRETE SHALL BE 520-C-2500.
2. SEE STANDARD DRAWINGS G-9 & G-10 FOR JOINT DETAILS.
3. COLOR & PATTERN OF COLORED STAMPED CONCRETE SHALL BE SHOWN ON PLANS.
4. CONCRETE COLOR SHALL BE INTERGRATED THROUGHOUT.

SHT. 1 OF 2

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>[Signature]</i> 2-7-95 COORDINATOR R.C.E. 25902 DATE
ORIGINAL		J.P. Casey	11-10-88		
				RAISED CENTER MEDIAN	DRAWING NUMBER <b>SDG-112</b>


DRAWING NUMBER **SDG-112**

### SCHEDULE "J" PAVEMENT

The following tables are to be used to determine the Schedule "J" pavement design sections for streets, alleys, parking lots for public facilities, driveways, and easements, including public access easements. These designs shall be used in the public right-of-way, or private property in the areas where public easements are granted.

1. Resistance values (R-values) will be determined from samples taken in the 12 inches of material located immediately below the first layer of subbase, base or pavement. This 12 inch section shall represent the top 36 inches of uniform soils below the subbase, or pavement. If a lower bearing soil is encountered in this 36-inch section, the R-value will be determined from the lowest bearing soil. Determination of the R-value shall be in accordance with CalTrans test methods 301-F and 301-G.
2. Average daily traffic (ADT) is the maximum average annual ADT expected at buildout. Function shall also be considered when determining the minimum Schedule "J" pavement section per the Engineer.
3. Rigid Pavements: The design thickness shown in the tables are based on a modified Portland Cement Association (PCA) design. Projects requiring CalTrans review should utilize the design methods prescribed in the CalTrans Highway Design Manual.
4. Portland Cement Concrete (PCC) pavement shall be constructed in streets on grades greater than 12.0 percent and in alleys and in alley intersections. The pavement shall be Class 560-B-3250 concrete with a minimum modulus of rupture (MOR) of 600.
5. New pavement, less than six feet (6') in width, shall be paved with Portland Cement Concrete pavement section noted in Schedule "J" for the street classification plus a 1/8" to 1/4" Class F asphalt concrete cap. An equivalent section of lean concrete shall be substituted for any required CTB subbase.
6. Personnel from the City's Engineering Laboratory will designate where a Private Laboratory shall sample for R-values.

SHEET 1 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS	CITY OF SAN DIEGO STANDARD COMMITTEE  5-29 COORDINATOR DATE
ORIGINAL		M.ROLLINGER	5-20-92		
NOTES		G.PARKINSON	2-7-95	PAVEMENT DESIGN STANDARDS SCHEDULE "J"	DRAWING NUMBER  SDG-113

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	50.0 OR GREATER	3.0	5.0	6.0	---	4.5
LOCAL (L.V.R.)	700	5.5		3.0	5.0	6.5	---	5.0
LOCAL (RES.)	1200	6.0		3.0	5.0	6.5	---	5.5
LOCAL (RES.)	2200	6.5		3.0	5.0	6.5	---	6.0
LOCAL (IND.)	2000	8.5		3.0	7.5	7.5	---	8.5
COLLECTOR (RES.)	3500	7.0		3.0	5.0	7.0	---	6.5
COLLECTOR (RES.)	5000	7.5		3.0	5.5	7.0	---	7.5
COLLECTOR (COMM./IND)	5000	9.5		3.0	8.5	7.5	---	9.0
COLLECTOR (NO FRT.)	7500	8.0		3.0	6.5	7.0	---	8.0
COLLECTOR	15000	9.0		3.0	7.5	7.5	---	8.5
MAJOR (4-LANE)	30000	10.5		3.0	10.0	8.0	---	10.5
MAJOR (6-LANE)	40000	11.0		3.5	10.5	8.0	---	11.0
PRIMARY ARTERIAL	50000	11.5		3.5	11.5	8.0	---	11.5
EXPRESSWAY	60000	12.0		3.5	11.5	8.5	---	12.0
EXPRESSWAY	80000	12.5		4.0	12.0	8.5	---	12.5
EXPRESSWAY	100000	13.0		4.0	12.5	9.0	---	13.0

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	40 TO 49.9	3.0	5.0	6.5	---	5.0
LOCAL (L.V.R.)	700	5.5		3.0	5.0	6.5	---	6.0
LOCAL (RES.)	1200	6.0		3.0	5.5	7.0	---	6.5
LOCAL (RES.)	2200	6.5		3.0	6.0	7.0	---	7.0
LOCAL (IND.)	2000	8.5		3.0	9.5	7.5	---	9.5
COLLECTOR (RES.)	3500	7.0		3.0	6.5	7.0	---	8.0
COLLECTOR (RES.)	5000	7.5		3.0	7.5	7.5	---	8.5
COLLECTOR (COMM./IND)	5000	9.5		3.0	11.0	8.0	---	11.0
COLLECTOR (NO FRT.)	7500	8.0		3.0	8.5	7.5	---	9.0
COLLECTOR	15000	9.0		3.0	10.5	8.0	---	10.0
MAJOR (4-LANE)	30000	10.5		3.5	12.5	8.5	---	12.0
MAJOR (6-LANE)	40000	11.0		4.0	12.5	8.5	---	12.5
PRIMARY ARTERIAL	50000	11.5		4.0	13.5	9.0	---	13.0
EXPRESSWAY	60000	12.0		4.5	13.5	9.0	---	13.5
EXPRESSWAY	80000	12.5		4.5	14.5	9.5	---	14.0
EXPRESSWAY	100000	13.0		5.0	15.0	10.0	---	15.0


SHEET 2 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J.P.CASEY	1-12-84			<i>[Signature]</i>	5-2-95
REVISED		G.PARKINSON	2-7-95	PAVEMENT DESIGN STANDARDS SCHEDULE "J"		COORDINATOR	DATE
						DRAWING NUMBER  SDG-113	

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	'R' VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	30 TO 39.9	3.0	5.0	6.5	---	6.0
LOCAL (L.V.R.)	700	5.5		3.0	5.5	7.0	---	6.5
LOCAL (RES.)	1200	6.0		3.0	6.5	7.0	---	7.0
LOCAL (RES.)	2200	6.5		3.0	7.5	7.0	---	8.0
LOCAL (IND.)	2000	8.5		3.0	11.5	8.0	---	10.5
COLLECTOR (RES.)	3500	7.0		3.0	8.5	7.5	---	8.5
COLLECTOR (RES.)	5000	7.5		3.0	9.5	7.5	---	9.0
COLLECTOR (COMM./IND)	5000	9.5		3.5	13.0	8.5	---	12.0
COLLECTOR (NO FRT.)	7500	8.0		3.0	10.5	7.5	---	10.0
COLLECTOR	15000	9.0		3.5	12.0	8.0	---	11.0
MAJOR (4-LANE)	30000	10.5		4.0	14.5	8.5	---	13.5
MAJOR (6-LANE)	40000	11.0		4.5	15.0	9.0	---	14.0
PRIMARY ARTERIAL	50000	11.5		5.0	15.5	9.0	---	14.5
EXPRESSWAY	60000	12.0		5.0	16.5	9.5	---	15.0
EXPRESSWAY	80000	12.5		5.5	17.0	9.5	---	16.0
EXPRESSWAY	100000	13.0		6.0	17.0	10.0	---	17.0

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	'R' VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	20 TO 29.9	3.0	5.5	7.0	---	6.5
LOCAL (L.V.R.)	700	5.5		3.0	7.0	7.0	---	7.5
LOCAL (RES.)	1200	6.0		3.0	8.0	7.0	---	8.0
LOCAL (RES.)	2200	6.5		3.0	9.0	7.5	---	8.5
LOCAL (IND.)	2000	8.5		3.5	13.0	8.0	---	11.5
COLLECTOR (RES.)	3500	7.0		3.0	10.0	7.5	---	9.0
COLLECTOR (RES.)	5000	7.5		3.0	11.5	7.5	---	10.0
COLLECTOR (COMM./IND)	5000	9.5		4.0	15.0	8.5	---	13.0
COLLECTOR (NO FRT.)	7500	8.0		3.5	12.0	8.0	---	11.0
COLLECTOR	15000	9.0		4.0	13.5	8.5	---	12.0
MAJOR (4-LANE)	30000	10.5		5.0	16.0	8.5	5.0	14.5
MAJOR (6-LANE)	40000	11.0		5.0	17.0	8.5	5.0	15.5
PRIMARY ARTERIAL	50000	11.5		5.5	17.5	9.0	5.0	16.0
EXPRESSWAY	60000	12.0		6.0	18.0	9.0	5.0	17.0
EXPRESSWAY	80000	12.5		6.0	19.5	9.5	5.0	17.5
EXPRESSWAY	100000	13.0		6.5	20.0	10.0	5.0	18.5


SHEET 3 OF 4

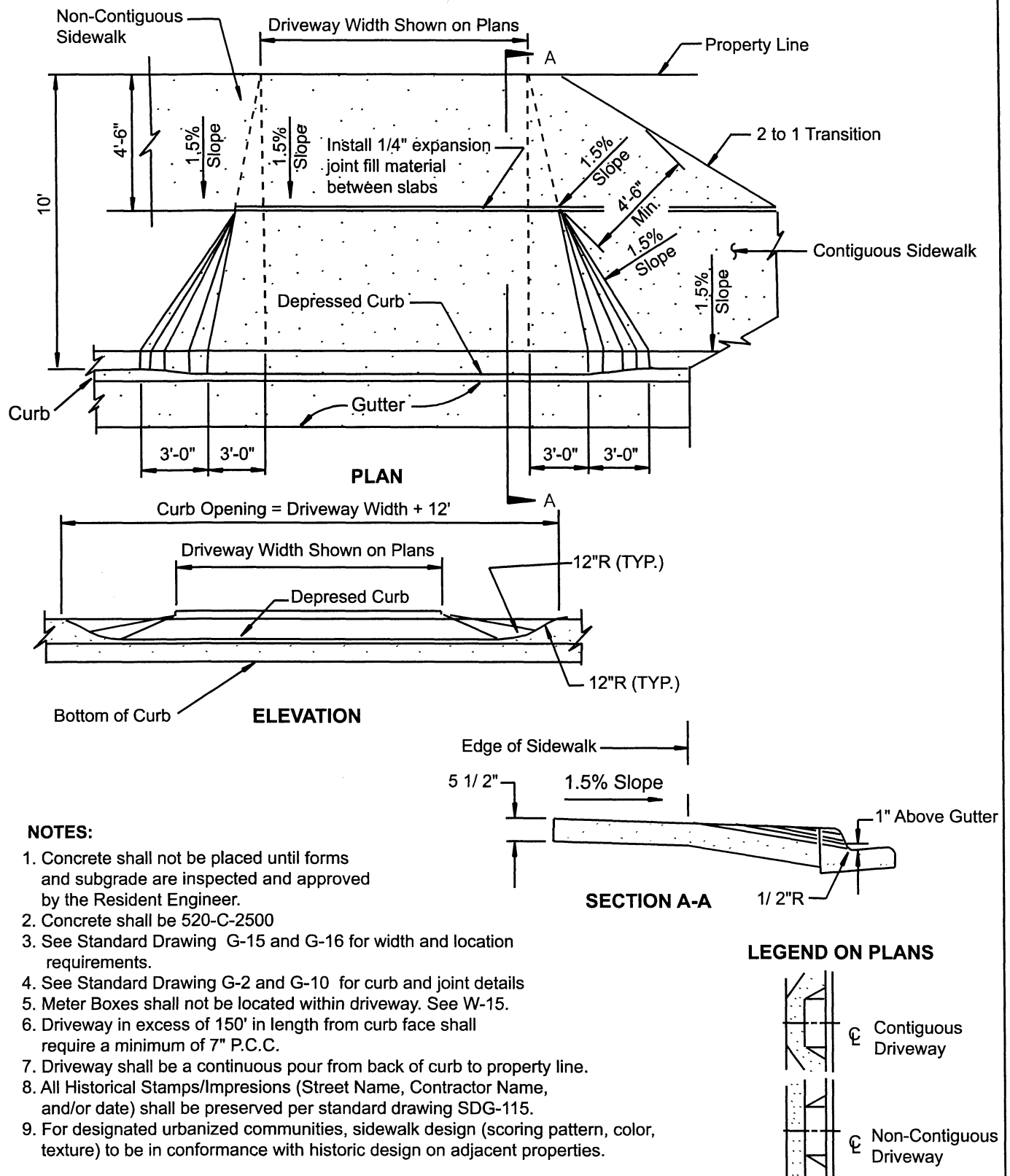
REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS	CITY OF SAN DIEGO STANDARDS COMMITTEE  5-2-97 COORDINATOR DATE
ORIGINAL		J.P.CASEY	1-12-84		
REVISED		G.PARKINSON	2-7-95	PAVEMENT DESIGN STANDARDS SCHEDULE "J"	DRAWING NUMBER  SDG-113

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	10 TO 19.9	3.0	7.0	7.0	---	7.5
LOCAL (L.V.R.)	700	5.5		3.0	8.0	7.0	---	8.0
LOCAL (RES.)	1200	6.0		3.0	9.0	7.5	---	8.5
LOCAL (RES.)	2200	6.5		3.0	10.5	7.5	---	9.0
LOCAL (IND.)	2000	8.5		4.0	14.5	8.0	5.0	12.5
COLLECTOR (RES.)	3500	7.0		3.0	12.0	7.5	---	10.0
COLLECTOR (RES.)	5000	7.5		3.5	12.5	8.0	---	11.0
COLLECTOR (COMM./IND)	5000	9.5		4.5	16.5	8.5	5.0	14.0
COLLECTOR (NO FRT.)	7500	8.0		3.5	14.0	8.0	---	11.5
COLLECTOR	15000	9.0		4.5	15.0	8.0	5.0	13.0
MAJOR (4-LANE)	30000	10.5		5.5	18.0	8.5	6.0	15.5
MAJOR (6-LANE)	40000	11.0		6.0	18.5	9.0	6.0	16.5
PRIMARY ARTERIAL	50000	11.5		6.0	20.0	9.0	6.0	17.5
EXPRESSWAY	60000	12.0		6.5	20.5	9.0	6.0	18.5
EXPRESSWAY	80000	12.5		7.0	21.5	9.5	6.0	19.0
EXPRESSWAY	100000	13.0		7.5	22.5	10.0	6.0	20.0

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	PCC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	0 TO 9.9	3.0	8.0	7.0	---	8.5
LOCAL (L.V.R.)	700	5.5		3.0	9.5	7.5	---	9.0
LOCAL (RES.)	1200	6.0		3.0	10.5	7.5	---	9.5
LOCAL (RES.)	2200	6.5		3.0	12.5	7.5	---	10.5
LOCAL (IND.)	2000	8.5		4.5	16.0	8.0	5.0	14.0
COLLECTOR (RES.)	3500	7.0		3.5	13.0	7.5	---	11.5
COLLECTOR (RES.)	5000	7.5		3.5	14.5	8.0	---	12.5
COLLECTOR (COMM./IND)	5000	9.5		5.0	18.5	8.5	6.0	15.5
COLLECTOR (NO FRT.)	7500	8.0		4.0	15.5	8.0	5.0	13.0
COLLECTOR	15000	9.0		5.0	17.0	8.5	5.0	14.5
MAJOR (4-LANE)	30000	10.5		6.0	20.0	9.0	6.0	17.5
MAJOR (6-LANE)	40000	11.0		6.5	21.0	9.0	6.0	18.5
PRIMARY ARTERIAL	50000	11.5		7.0	22.0	9.0	6.0	19.5
EXPRESSWAY	60000	12.0		7.0	23.0	9.5	6.0	20.5
EXPRESSWAY	80000	12.5		7.5	24.0	10.0	6.0	21.5
EXPRESSWAY	100000	13.0		8.0	25.0	10.5	6.0	22.0

SHEET 4 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWINGS		CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		J.P.CASEY	1-12-84				DATE
REVISED		G.PARKINSON	2-7-95	PAVEMENT DESIGN STANDARDS SCHEDULE "J"		COORDINATOR	
						DRAWING NUMBER	
						SDG-113	



Revision	By	Approved	Date
Original		M.V.R.	5-92
Notes		G. P.	2-95
Notes	SM	A. Oskoui	12-03
Notes	SM	A. Oskoui	8-06
Update	FC	A. Oskoui	12-06

# CITY OF SAN DIEGO - STANDARD DRAWING

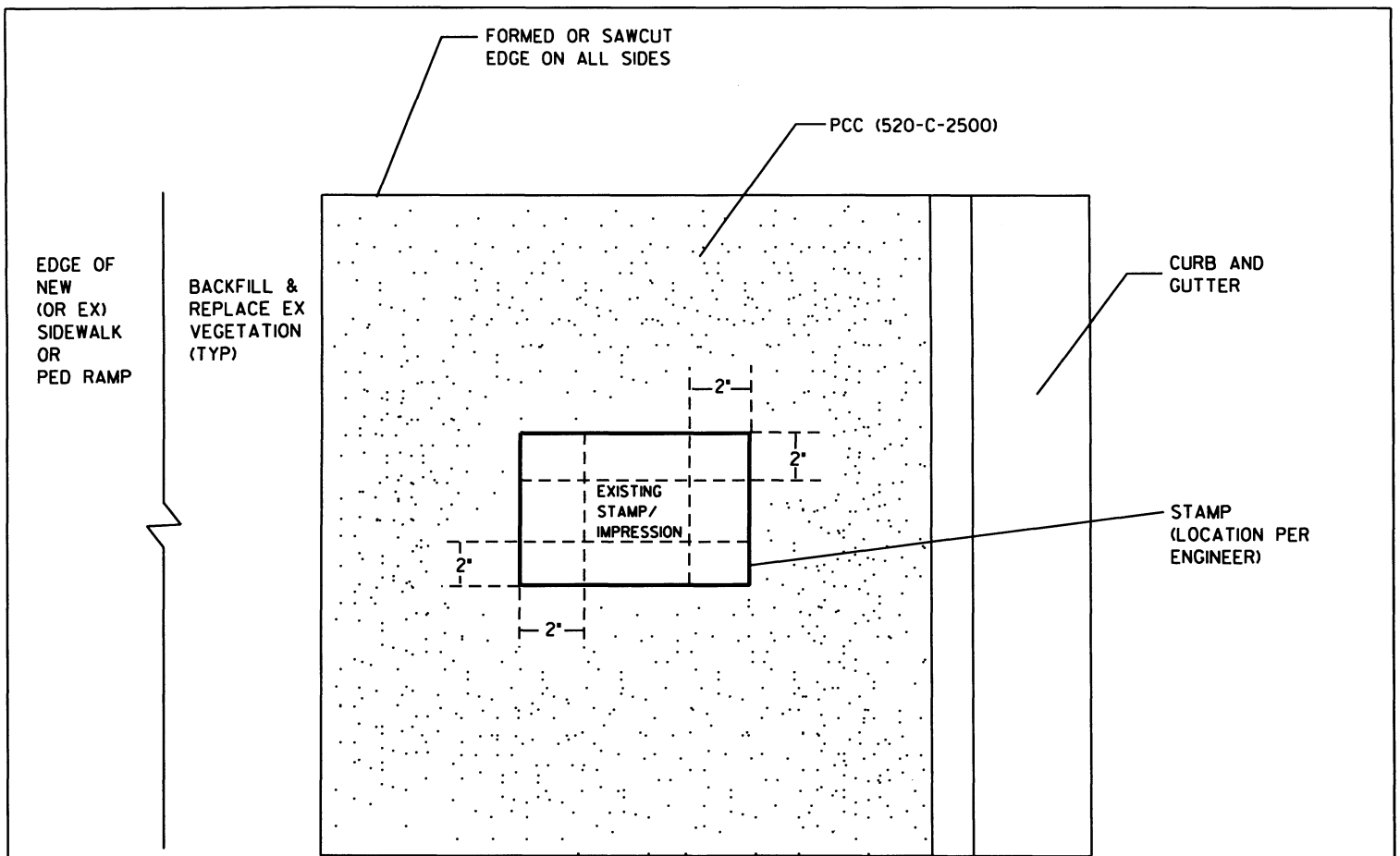
## COMMERCIAL CONCRETE DRIVEWAY

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

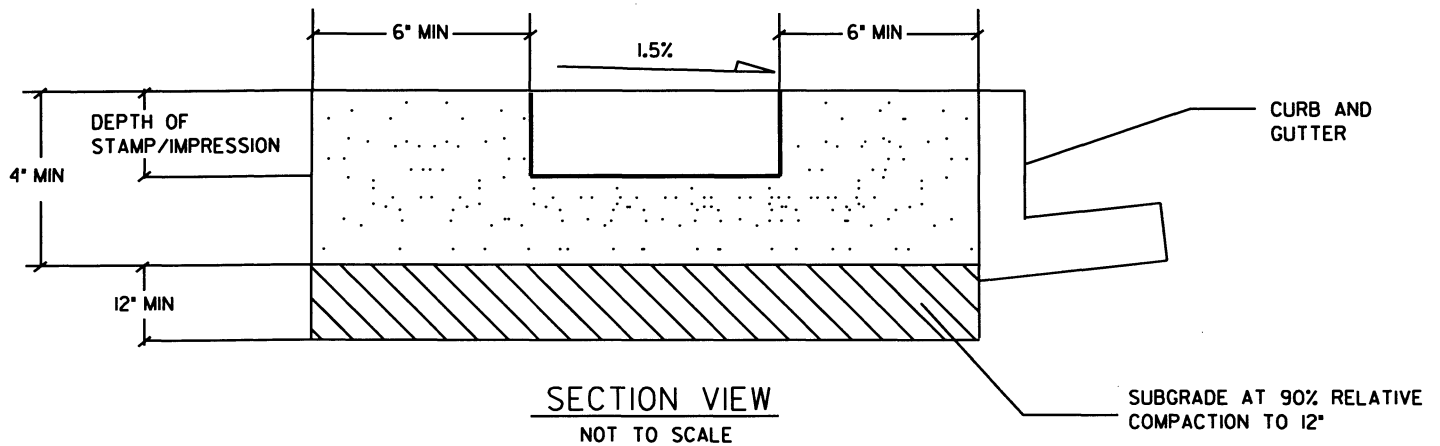
*M. Daniel* 12/19/6  
COORDINATOR R.C.E 65271 - Date

DRAWING  
NUMBER **SDG-114**





PLAN VIEW  
NOT TO SCALE



SECTION VIEW  
NOT TO SCALE

**NOTES:**

1. ALL STAMP/IMPRESSION LOCATIONS AND ORIENTATIONS SHALL BE PRE-APPROVED BY THE ENGINEER.
2. SINGLE STAMP/IMPRESSION SHALL BE PLACED AS CLOSE TO ITS ORIGINAL LOCATION AS CONSTRUCTION ALLOWS.
3. MULTIPLE STAMPS/IMPRESSIONS (EXISTING AND/OR NEW) SHALL BE EVENLY SPACED ALONG THE NEWLY CONSTRUCTED SIDEWALK
4. EXISTING STAMP/IMPRESSION SHALL BE SAWCUT TO NO LESS THAN 2" FROM STAMP LETTERING AND/OR SYMBOL
5. INSTALLATION OF ALL NEW STAMPS/IMPRESSIONS SHALL BE PER GREENBOOK SPECIFICATION SECTION 303-5.5

Revision	By	Approved	Date
ORIGINAL	NBZ	J. SHOAF	8/00
DETAIL	SM	A. OSKOU	12/03

CITY OF SAN DIEGO - STANDARD DRAWING

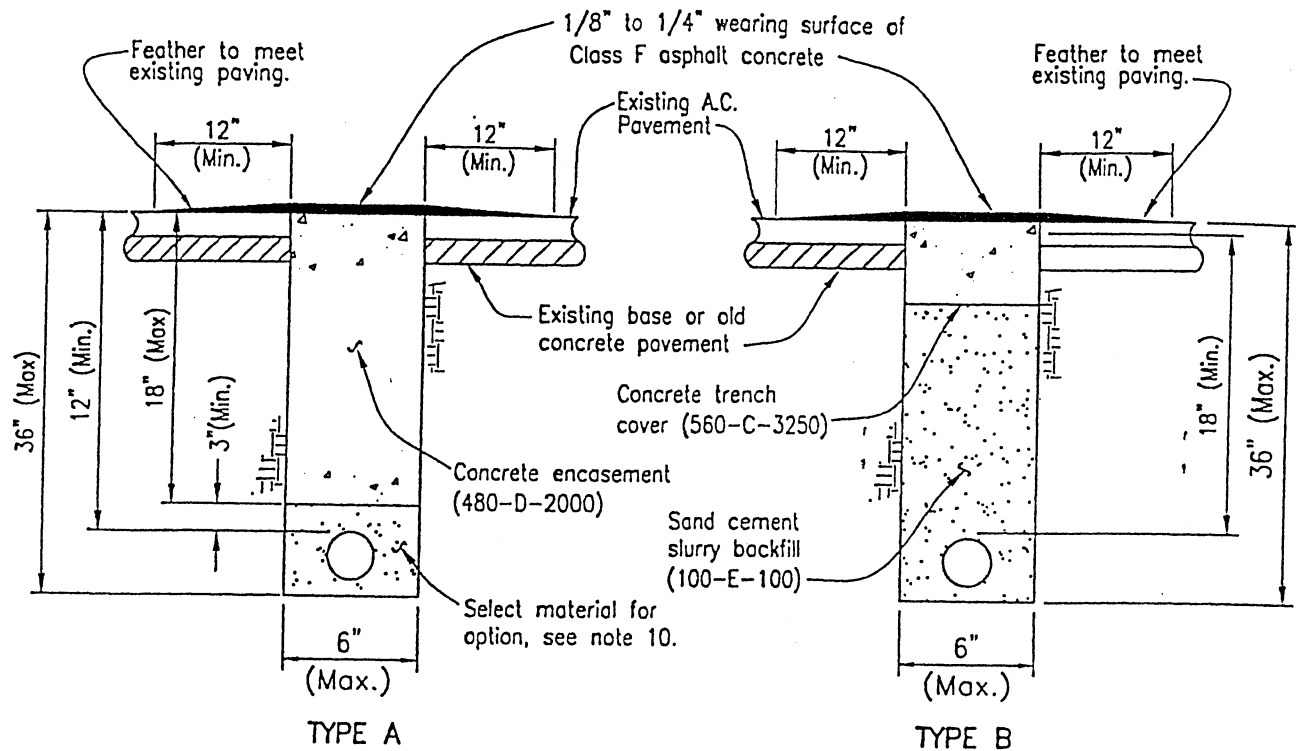
EXISTING STAMP/IMPRESSION PLACEMENT

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*Bh* 6-14-04  
Chairperson RCE 64372 Date

DRAWING  
NUMBER

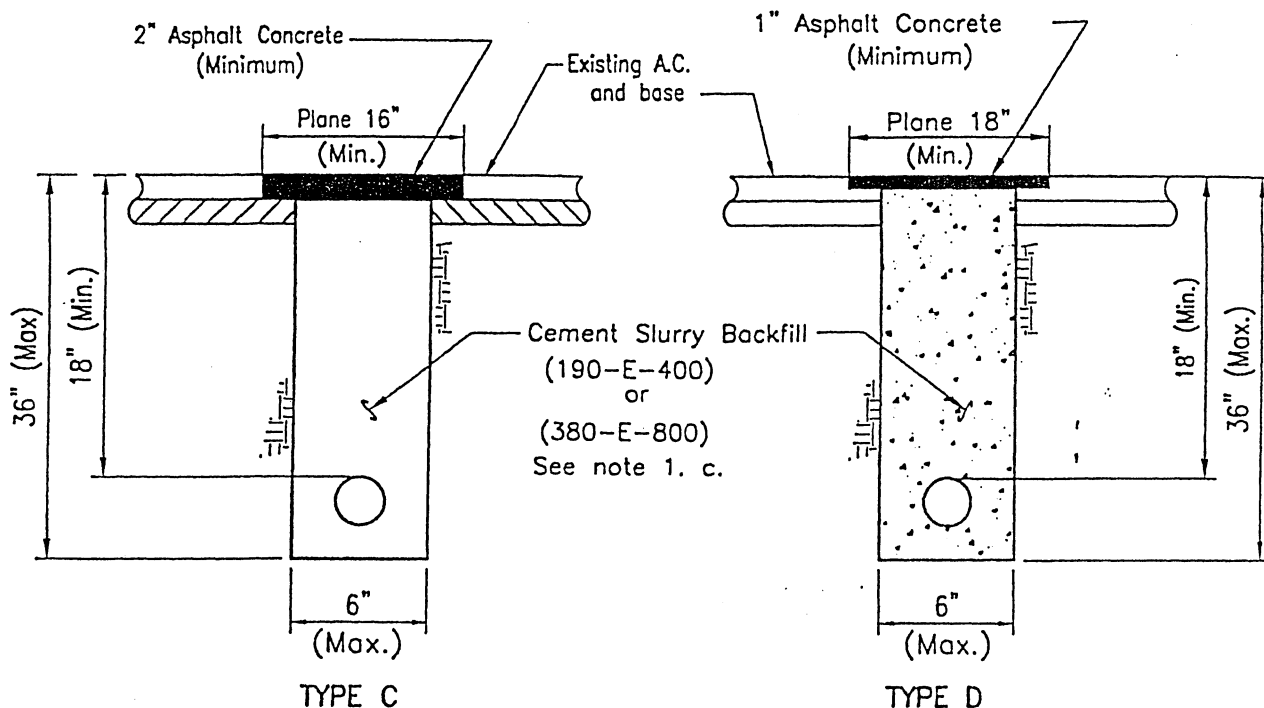
SDG-115



## NOTES

- Concrete encasement or sand cement slurry backfill shall have a minimum slump of 4 inches.
- Concrete encasement and sand cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
- Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.
- A tack coat shall be applied to the concrete and existing asphalt pavement prior to placing the new asphalt pavement wearing surface.
- Existing A.C. pavement will not require saw cutting when using rockwheel for excavation.
- Concrete trench cover shall be a minimum 5-1/2 inches thick in alleys or local residential streets, and 7 inches thick in all other streets.
- Allow concrete backfill or concrete trench cover 7 calendar days minimum, but no longer than 30 calendar days to cure and dry before applying the asphalt concrete wearing surface.
- In major or prime arterial streets, an approved set accelerating admixture, such as calcium chloride, may be used only with prior approval of the agency's Engineer.
- Only Type A shall be permitted for supply cables of 750 volts or less. See California Public Utility Commission General Order No. 128, Rule 33.4 D.(1)(b).
- Selected material with minimum sand equivalent of 50 shall be backfilled to 3 inches minimum above the conduit. Sand cement slurry backfill (100-E-100) may be substituted for select material.

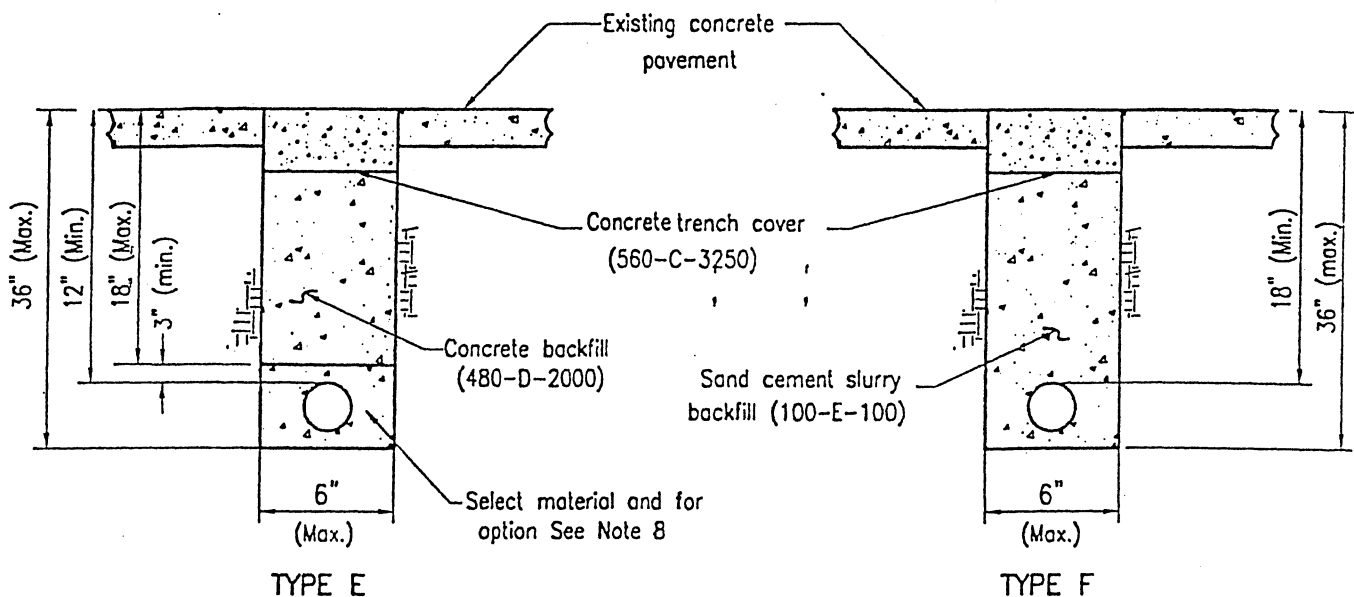
Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original		Bahmanian	04/86		
		A.Oskoui	12/03	NARROW TRENCHING TYPES A & B BACKFILL & RESURFACING	<i>Ch. W. Hall</i> 12/16/16 COORDINATOR R.C.E 65271 Date
Title Block		A.Oskoui	12/06		
					DRAWING NUMBER <b>SDG-116</b>



## NOTES

1. Cement Slurry Backfill:
  - a. Cement slurry backfill shall have a maximum slump of 4 inches.
  - b. Cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
  - c. Cement slurry backfill shall be as follows:
    - Alleys and local residential streets ..... Class (190-E-400)
    - All other streets ..... Class (380-E-800)
2. A tack coat shall be applied to the cement slurry backfill and existing asphalt pavement prior to placing the new asphalt surface.
3. Asphaltic Concrete Resurfacing:
  - Type C
    - a. Allow cement slurry backfill 48 hours minimum to cure before resurfacing, unless approved by the Engineer.
    - b. Thickness shall match the existing A.C. with a minimum of 2 inches.
    - c. A.C. shall be hot mix.
  - Type D
    - a. Allow cement slurry backfill seven days minimum to cure before planing.
    - b. Plane existing asphalt pavement and slurry backfill, one half thickness of existing A.C., (1 inch minimum not to exceed 2 inches).
    - c. A.C. shall be hot mix.
4. A.C. resurfacing shall be sealed or chip sealed when required by the agency's Engineer.
5. Existing A.C. pavement will not require sawcutting when using rockwheel for excavation.

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
Original		Bahmanian	04/86			<i>Ch. W. Welch</i> 12/16/6	
		A.Oskoui	12/03	NARROW TRENCHING TYPES C & D BACKFILL & RESURFACING		COORDINATOR R.C.E 65271 Date	
Title Block		A.Oskoui	12/06			DRAWING	
						NUMBER	
						SDG-117	

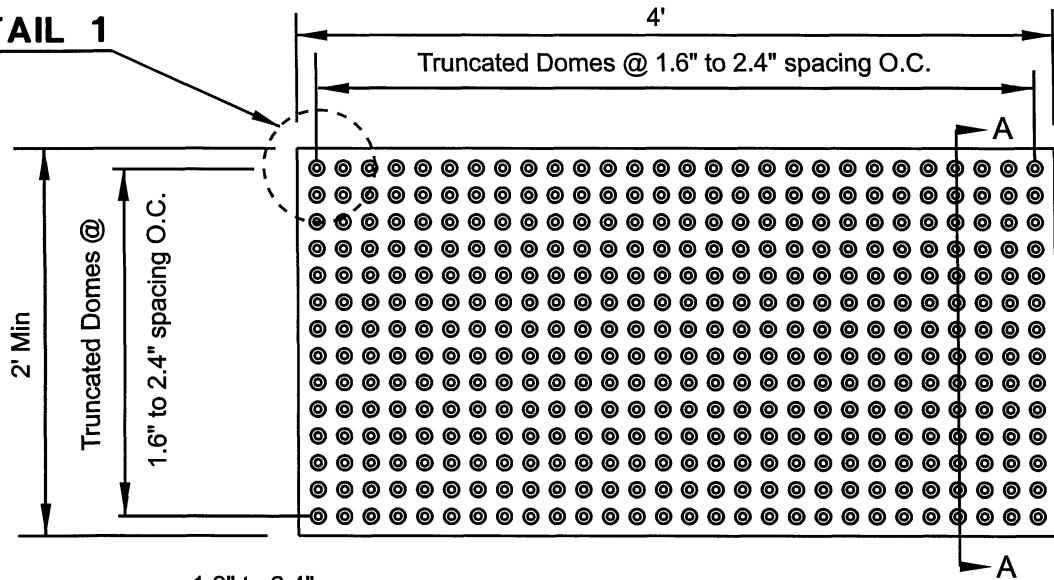


## NOTES

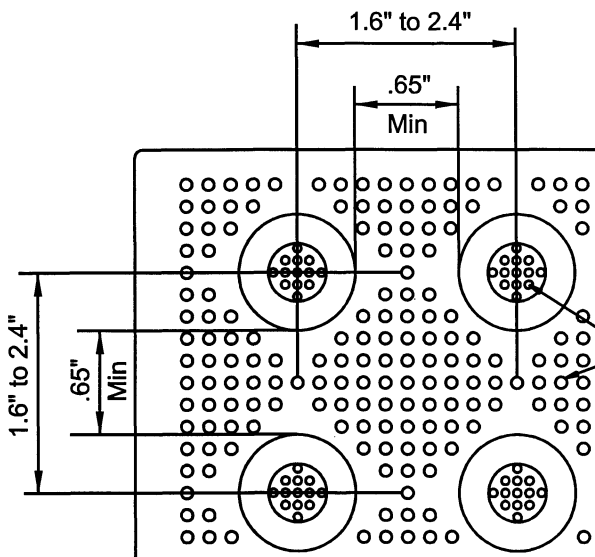
1. Concrete slurry backfill shall have a maximum slump of 4 inches.
2. Cement slurry backfill shall be thoroughly consolidated to encase conduits. Tampers or vibrators shall be used.
3. Concrete shall be screeded off to match existing pavement grade and floated to assure proper edge match.
4. Concrete trench cover shall be a minimum of 5 1/2 inches thick in alley or local residential streets and 7 inches thick in all other streets.
5. Existing concrete pavement will require sawcutting when using rockwheel for excavation.
6. In major or prime arterial streets, an approved set accelerating admixture, such as Calcium Chloride, may be used only with prior approval of the agency's engineer.
7. Only Type E shall be permitted for supply cables of 750 volts or less. See California Public Utility Commission General Order No. 128, Rule 33.4 (1)(b).
8. Select material with a minimum sand equivalent of 50 shall be backfilled to 3" min. above the conduit. Sand cement slurry backfill (100-E-100) may be substituted for select material.

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING		CITY OF SAN DIEGO STANDARDS COMMITTEE	
Original		Bahmanian	04/86			<i>Ch. W. Hall: 12/16/16</i>	
		A.Oskoui	12/03	NARROW TRENCHING TYPES E & F BACKFILL & RESURFACING		COORDINATOR R.C.E 65271 Date	
Title Block		A.Oskoui	12/06			DRAWING	
						SDG-118	
						DRAWING NUMBER	

# **DETAIL 1**



**PLAN - TILE**

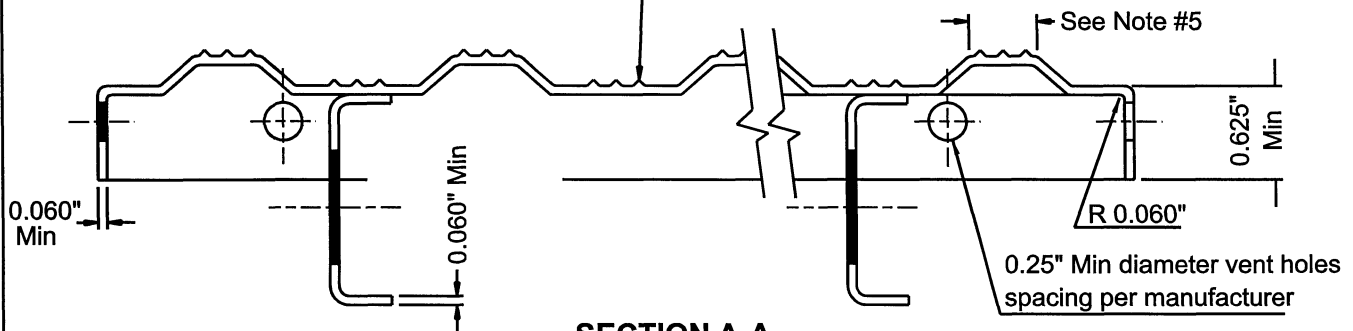


**DETAIL 1**

See Note 2

## **NOTES:**

1. The detectable/tactile warning tiles shall be stainless steel cast in place and shall comply with the City of San Diego Supplement Amendments Sections 216 and 303.
2. Pattern, size & orientation are per manufacturer's recommendation.



**SECTION A-A**

Revision	By	Approved	Date
Original	FC	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

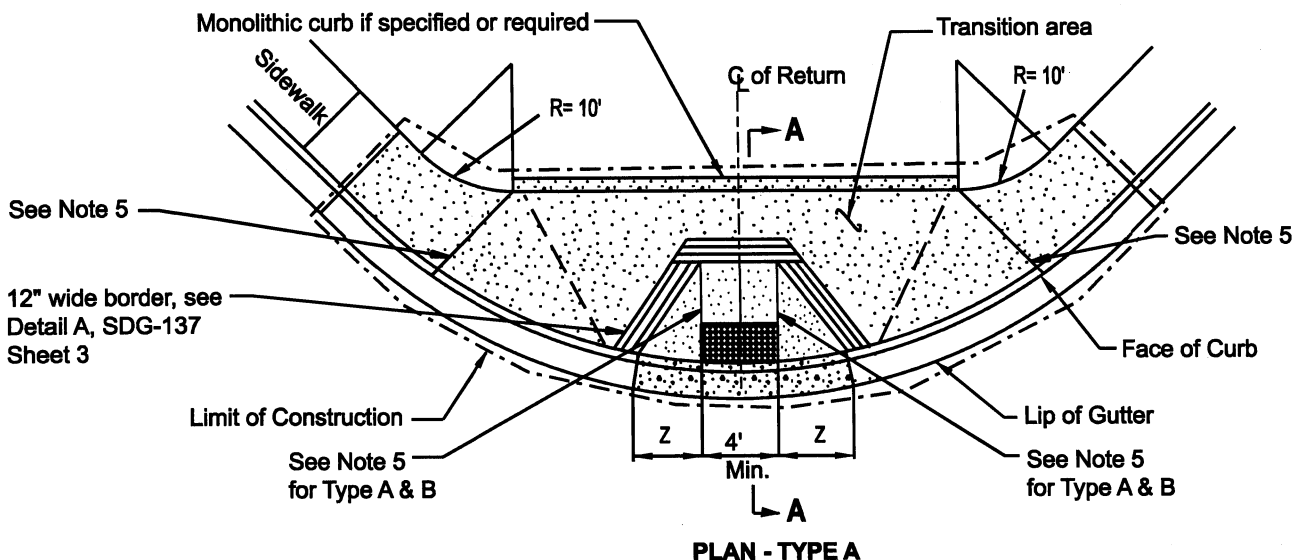
**CITY OF SAN DIEGO - STANDARD DRAWING**

**DETECTABLE/TACTILE WARNING  
TILE (TRUNCATED DOMES)**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

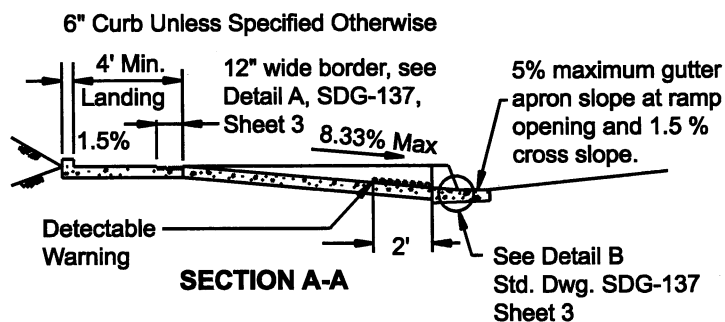
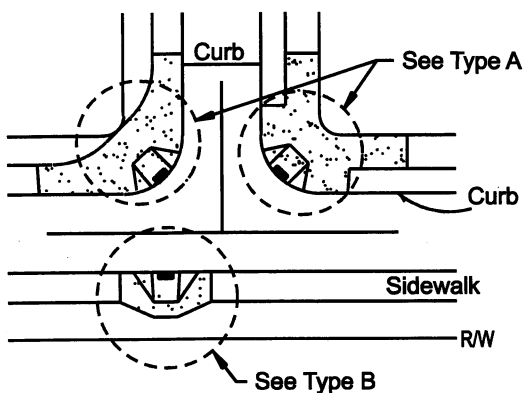
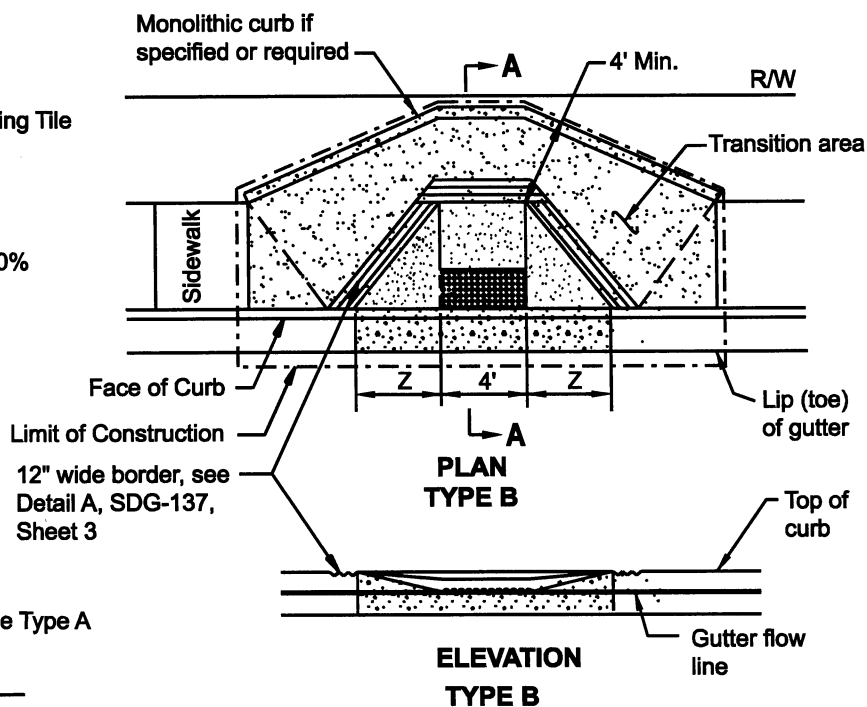
*H. Daniel* 12/19/6  
COORDINATOR R.C.E 65271 - Date

**DRAWING  
NUMBER SDG-130**



# **NOTES:**

1. See SDG-130 for Detectable/Tactile Warning Tile (Truncated Domes) details.
2. See Drawing SDG-137 for additional Curb Ramp Details and Information.
3. The landing cross slope shall be 1.5%
4. Z = side slope or flares cannot exceed 10.0%
5. Tooled Joint - 1/4" deep groove with 1/4" radius edges.



Revision	By	Approved	Date
Original	FC	A. Oskoui	12/03
Update	FC	A. Oskoui	

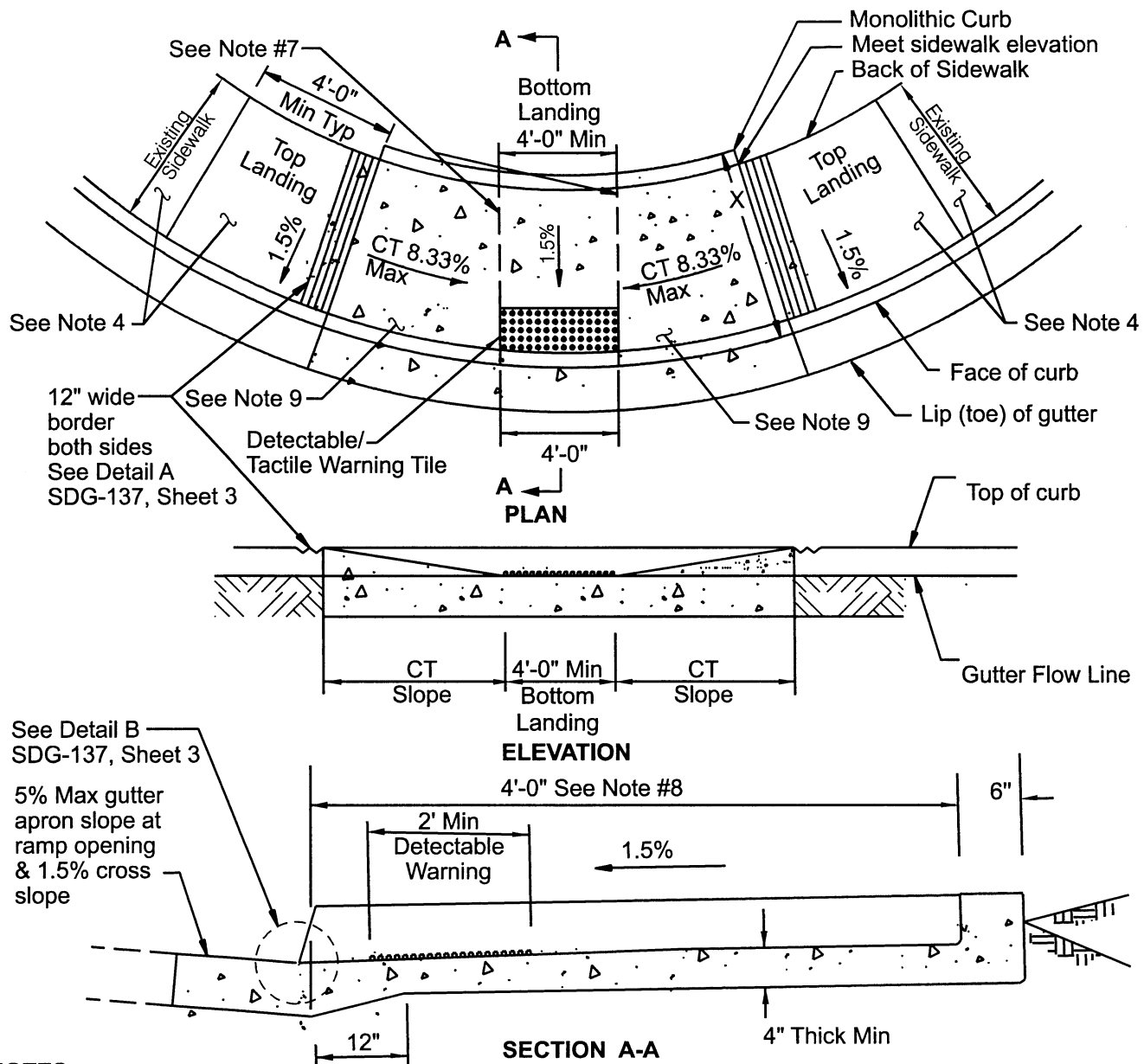
**CITY OF SAN DIEGO - STANDARD DRAWING**

**CURB RAMP - TYPES A AND B**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*Ad. Hual* 12/16/6  
COORDINATOR R.C.E 65271 - Date

**DRAWING  
NUMBER SDG-132**



Revision	By	Approved	Date
Original	SS	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

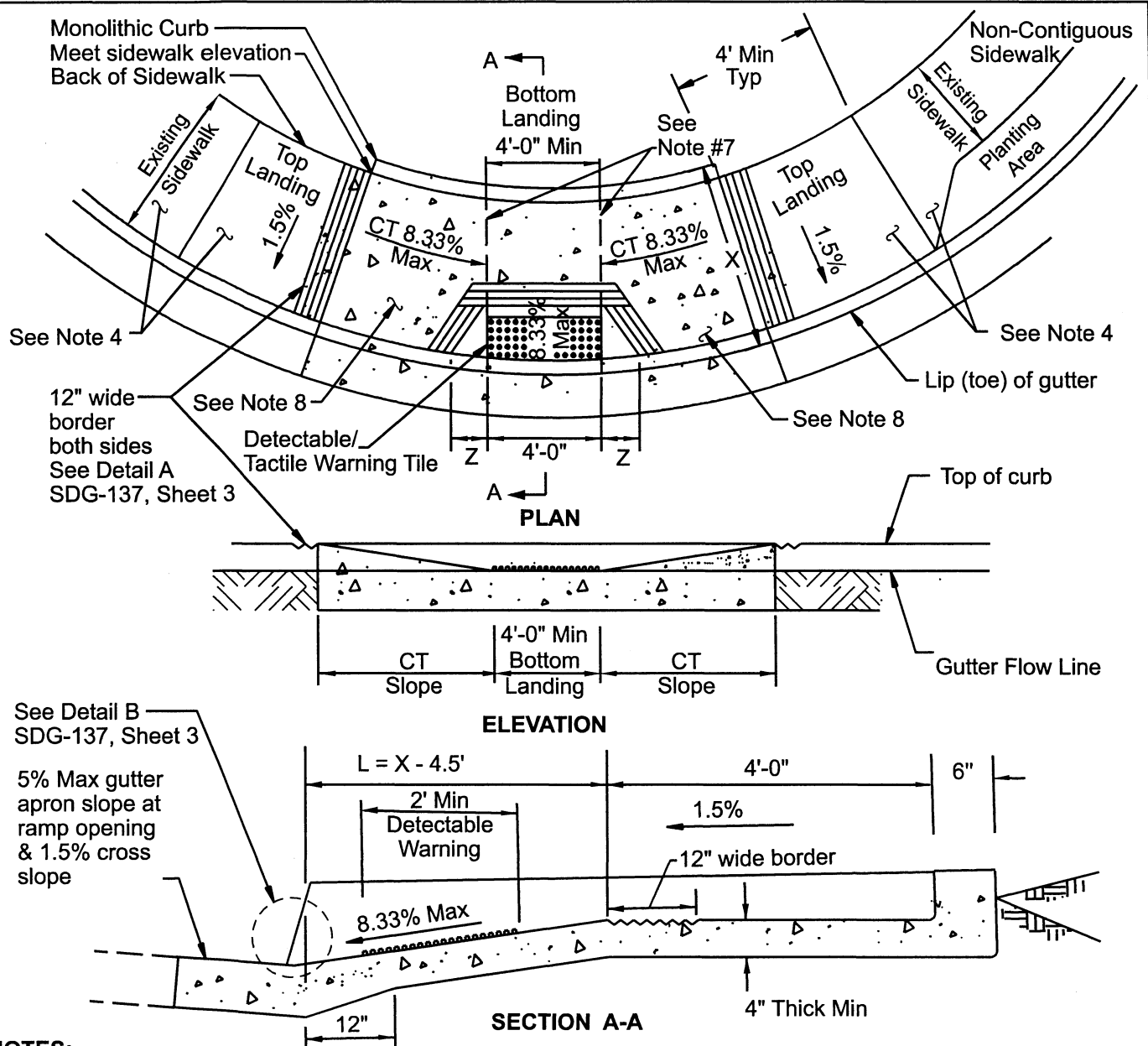
# CITY OF SAN DIEGO - STANDARD DRAWING

## CURB RAMP - TYPE C1 (For Existing Sidewalk)

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

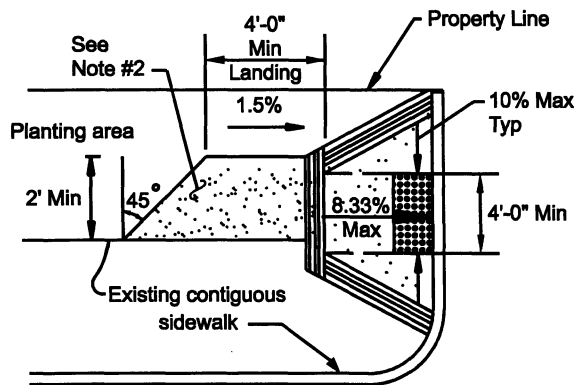
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COORDINATOR R.C.E 65271 - Date

**DRAWING  
NUMBER SDG-134**



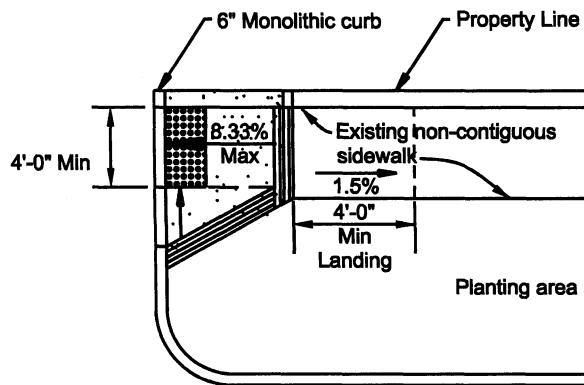
Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	SS	A. Oskoui	12/03		
Update	FC	A. Oskoui	12/06	CURB RAMP - TYPE C2 (For Existing Sidewalk)	<i>Handwritten:</i> 12/16/6
					COORDINATOR R.C.E 65271 - Date
					DRAWING
					NUMBER <b>SDG-135</b>



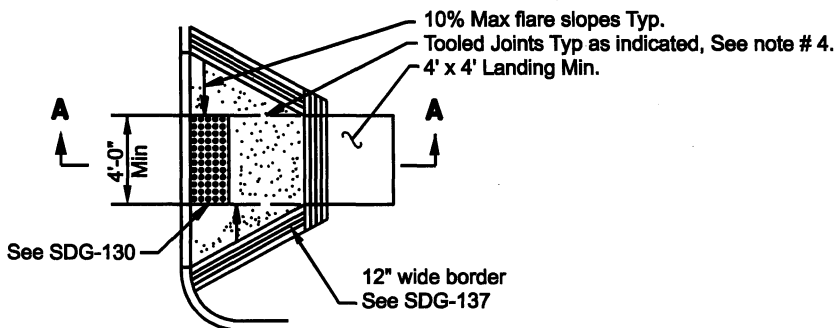


ALLEY

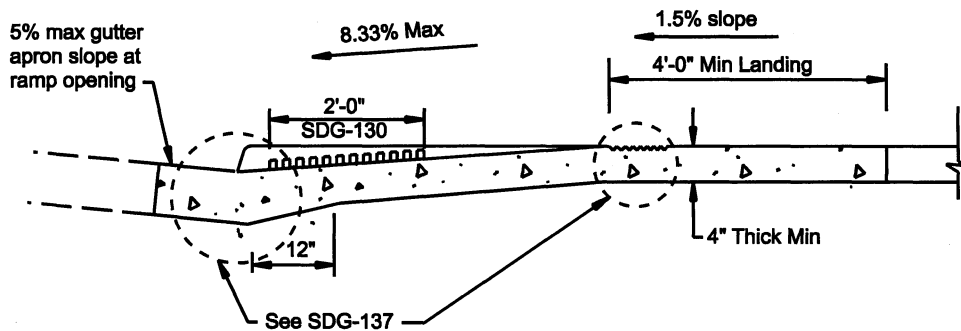
TYPICAL PLAN



STREET



PLAN VIEW



SECTION A - A

NOTES:

1. See Drawing SDG-137 for additional curb ramp details and information.
2. Landing cross slope shall be 1.5%.
3. See SDG-130 For Detectable Warning details.
4. Tooled Joint - 1/4" Deep Groove with 1/4" Radius Edges.

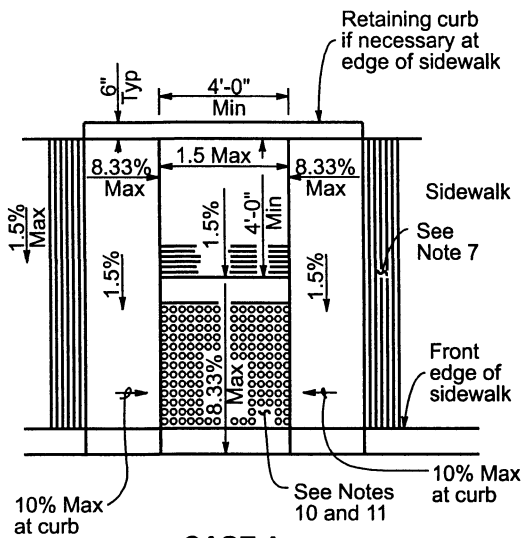
Revision	By	Approved	Date
Original	SM	A. Oskoui	12/03
Up-Date	FC	A. Oskoui	12/06

CITY OF SAN DIEGO - STANDARD DRAWING

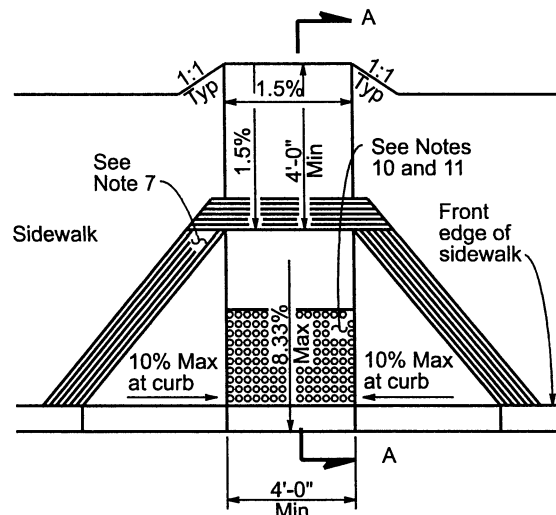
CURB RAMP - TYPE D

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

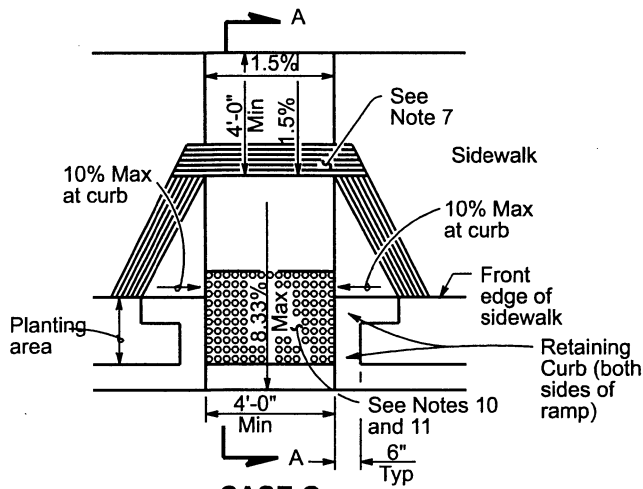
*W. H. H. H.* 12/16/6  
COORDINATOR R.C.E 65271 - Date  
DRAWING  
NUMBER **SDG-136**



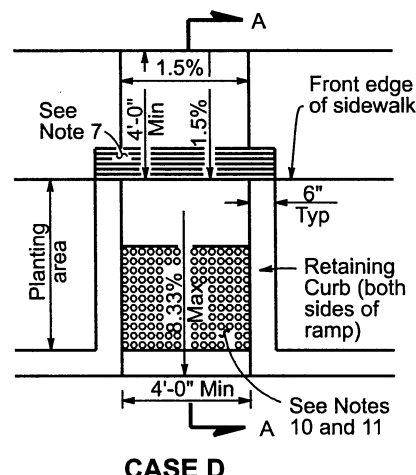
**CASE A**



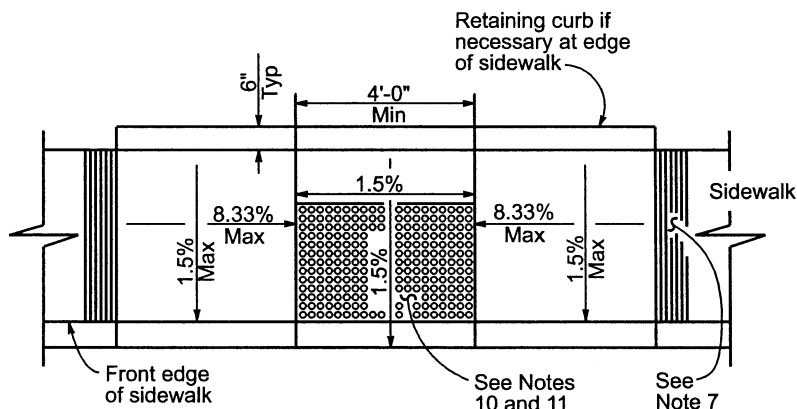
**CASE B**



**CASE C**



**CASE D**



**CASE E**

**SHEET 1 OF 3**

Revision	By	Approved	Date
Original	SS	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

**CITY OF SAN DIEGO - STANDARD DRAWING**

**SUPPLEMENTAL CURB RAMP  
DETAILS**

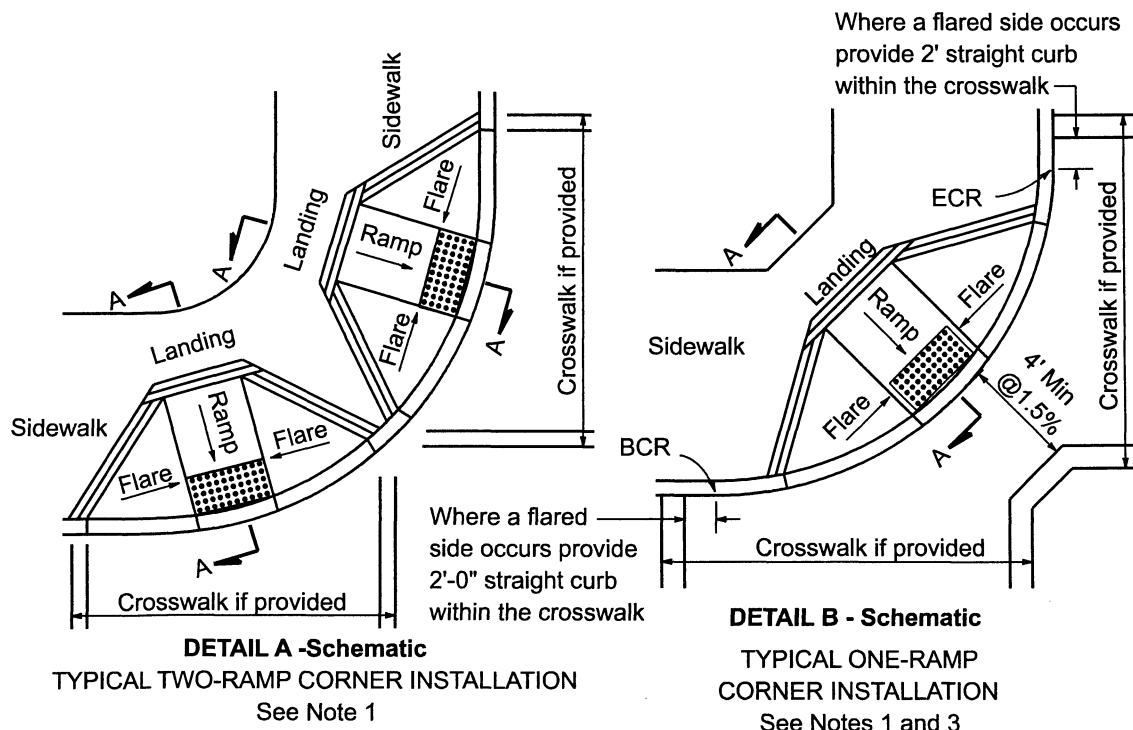
CITY OF SAN DIEGO  
STANDARDS COMMITTEE

*A. Oskoui* 12/16/6  
COORDINATOR R.C.E 65271 - Date

**DRAWING  
NUMBER SDG-137**

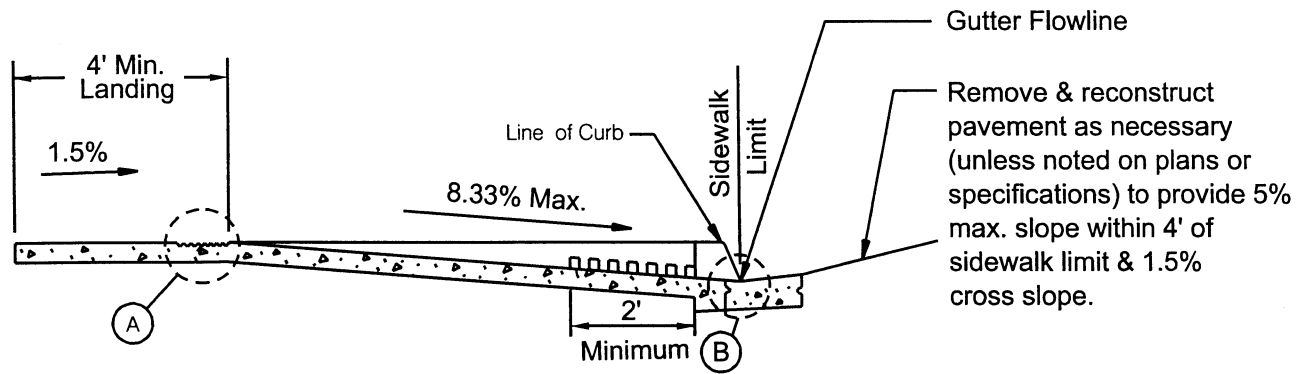
# **SUPPLEMENTAL NOTES TO SDG-137, SHEET 1 OF 3:**

1. As site conditions dictate, Case A through Case E (including SDG-134 and SDG-135) curb ramps may be used for corner installations similar to those shown in Detail A and Detail B below. The Contractor must obtain approval from the designated Resident Engineer prior to the application of any of these cases.
2. If distance from curb to back of sidewalk is too short to accommodate a Type A or B curb ramp and a 4'-0" landing as shown in SDG-132, the sidewalk may be depressed longitudinally as shown in Case A, Case E, SDG-134, and SDG-135 or, may be widened as shown in Case B if within right-of-way.
3. When a curb ramp is located in the center of a curb return, crosswalk configuration must be similar to that shown for Detail B as shown below.
4. Side slope or flare slopes may vary uniformly up to a maximum of 10.0% at curb to conform with the longitudinal sidewalk slope adjacent to top of the ramp, except for Case A, D, E, SDG-134, and SDG-135.
5. The curb ramp shall be outlined with a 12" wide border, with 1/4" grooves approximately 3/4" on center. See Detail A, Sheet 3 of 3.
6. Transitions from ramps to walks, gutters, or streets shall be flush and free of abrupt changes. On existing street conditions, the built-up asphalt at the bottom of the curb ramp between the gutter and the street must be milled away to achieve the required flush transition.
7. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp, and continuous passage to the curb ramp shall not exceed 5.0% within 4'-0" of the bottom of the curb ramp.
8. Curb ramps shall have a detectable warning surface (truncated domes) that extends the full width and min 2'-0" depth of the ramp. Detectable/Tactile warning tile design, color, and materials must conform with the City of San Diego Supplement Amendments Sections 216 and 303 and SDG-130.
9. The edge of the detectable warning surface nearest the street shall be between 6" and 8" from the gutter flowline.
10. If the condition of the street and sidewalk is such that the existing slopes do not allow the installation of the required curb ramp and side/flare slopes then the Contractor may extend the construction of the slope up to a maximum length of 15'-0" (linear feet) to catch the required slope even if the required slope is not achieved. Close coordination with the designated Resident Engineer is required at these conditions prior to any demolition of the street and sidewalk and prior to the installation of the curb ramp(s).

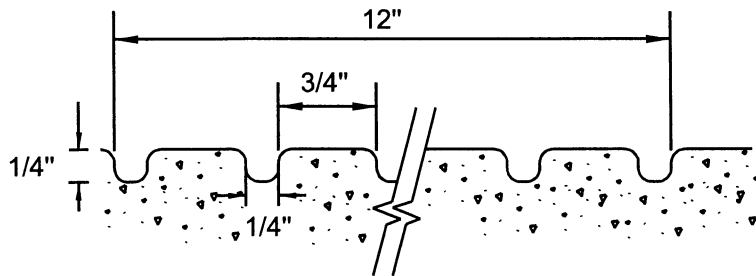


**SHEET 2 OF 3**

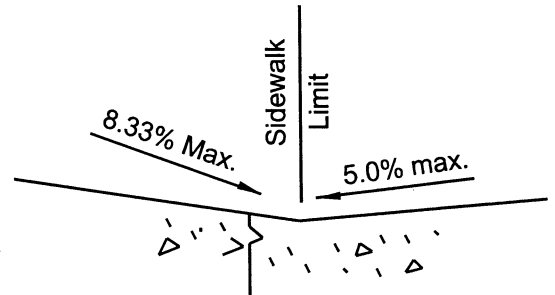
Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	SS	A. Oskoui	12/03		
Update	FC	A. Oskoui	12/06	CURB RAMP DETAILS	<i>H. Daniel</i> : 12/16/6
					COORDINATOR R.C.E 65271 - Date
					DRAWING
					NUMBER <b>SDG-137</b>



**SECTION A-A**



**DETAIL A**  
12" wide border



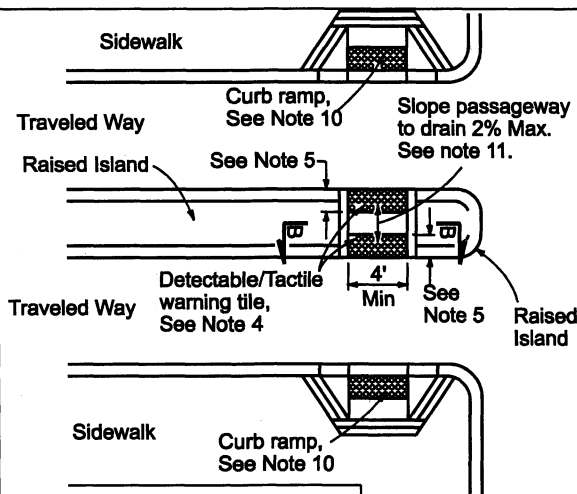
**DETAIL B**  
See Note #7

### NOTES

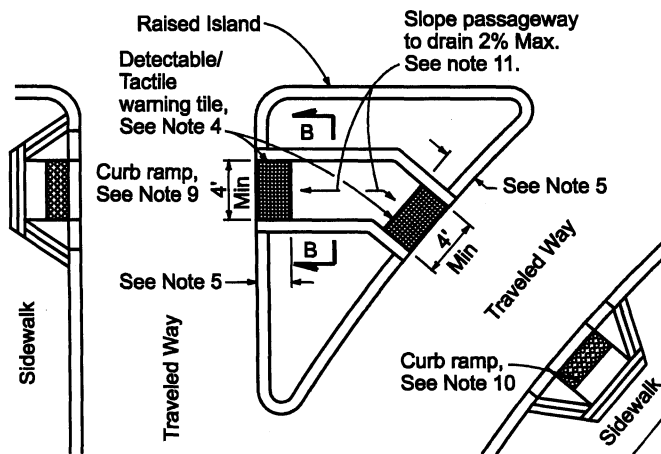
1. The removal of existing concrete curb, gutter, sidewalk, and pavement (or curb ramp) for a new curb ramp shall comply with G-11. The removal of additional sidewalk panels may be required to meet existing grade and to comply with the accessibility regulations.
2. Curb ramp surfaces ( flares and ramp) shall have a medium to heavy broom textured finish, perpendicular to the axis of travel.
3. Curb ramps shall be of concrete class 520-C-2500.
4. If obstructions such as inlets, light poles, fire hydrants, etc., are encountered, the curb ramp location(s) may be adjusted only upon the evaluation & approval of the designated Resident Engineer.
5. The cross slope of the ramp shall be 1.5%.
6. The landing slope shall be 1.5% in both directions.
7. All projections ( new construction & alteration), the lower end of 48" width ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement surface.
8. Install 1/4" expansion joint filler material between a new curb ramp and the existing sidewalks.

Sheet 3 of 3

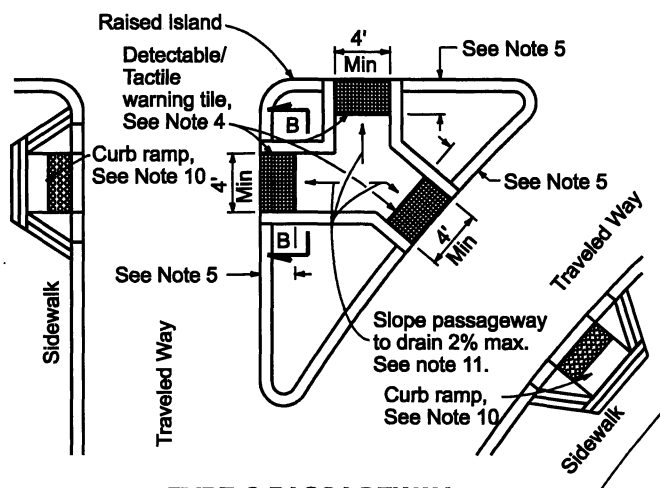
Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE
Original	SS	A. Oskoui	12/03		
Update	FC	A. Oskoui	12/06	GENERAL NOTES for CURB RAMPS	<i>W. Hall: 12/16/6</i>
					COORDINATOR R.C.E 65271 - Date
					<b>DRAWING</b>
					<b>NUMBER SDG-137</b>



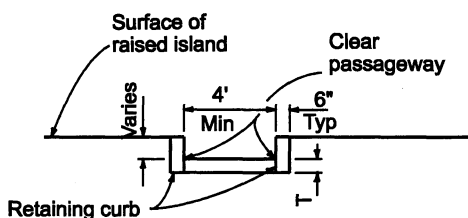
**TYPE A PASSAGEWAY**



**TYPE B PASSAGEWAY**



**TYPE C PASSAGEWAY**



**SECTION B-B**

**NOTE:**

1. Sidewalk, ramp and passageway thickness "T", shall be 4' min. See section B-B
2. Minimum width of the passageway through raised islands shall be 4', except for locations where right of way restrictions, natural barriers, or other existing conditions create an unreasonable hardship, the min clear width of the passageway may be reduced to 3'.
3. Details of grooving, see SDG-137.
4. Details of Detectable/Tactile warning tile, see SDG-130.
5. Where an island passage way length is less than 6'-0", the Detectable/Tactile warning tile shall extend the full width and full length of the passage way length. Where an island passage way length is greater than or equal to 6'-0", but less than 8'-0", a Detectable/Tactile warning tile shall extend the full width and 2'-0" depth of the passage way length. Where an island passage way length is greater than or equal to 8'-0", a Detectable/Tactile warning tile shall extend the full width and 3'-0" depth of the passage way length.
6. The Detectable/Tactile warning tiles at flush refuge or passage way shall be in line with median edge.
7. Transitions from ramps to walks, gutters or streets shall be flush and free of abrupt changes.
8. Maximum slopes of adjoining gutters, the road surface immediately adjacent to the curb ramp and continuous passage to the curb ramp shall not exceed 5% within 4'-0" of the top or bottom of the curb ramp.
9. Utility pull boxes, manholes, vaults and all other utility facilities within the boundaries of the curb ramp are to be relocated or adjusted to grade prior to, or in conjunction with the curb ramp construction. Coordinate relocation or adjustment with Resident Engineer.
10. See SDG-137 for additional curb ramp details and information.
11. Cross slope at passage way on refuge shall be 1.5%.

Revision	By	Approved	Date
Original	SS	A. Oskoui	12/03
Update	FC	A. Oskoui	12/06

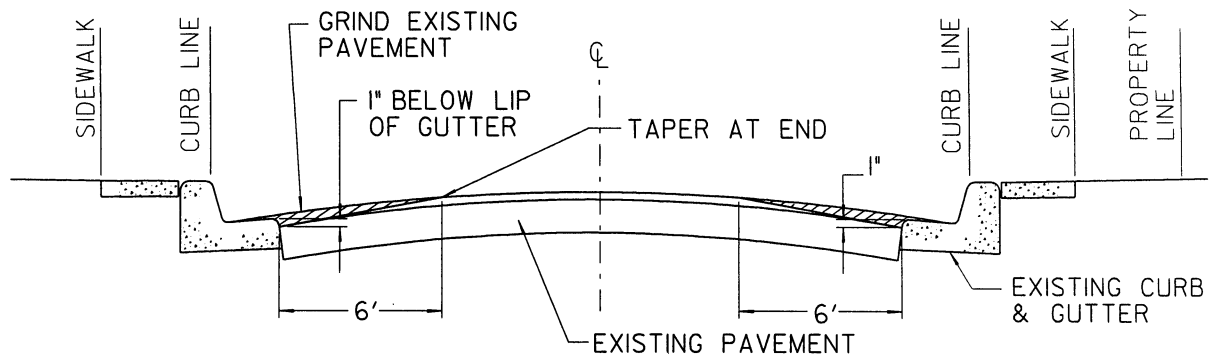
**CITY OF SAN DIEGO - STANDARD DRAWING**

**ISLAND REFUGE /  
PASSAGEWAY DETAILS**

CITY OF SAN DIEGO  
STANDARDS COMMITTEE

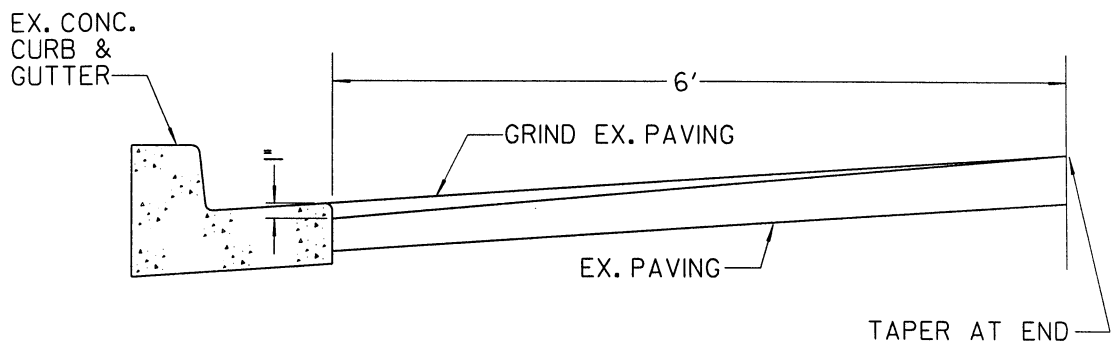
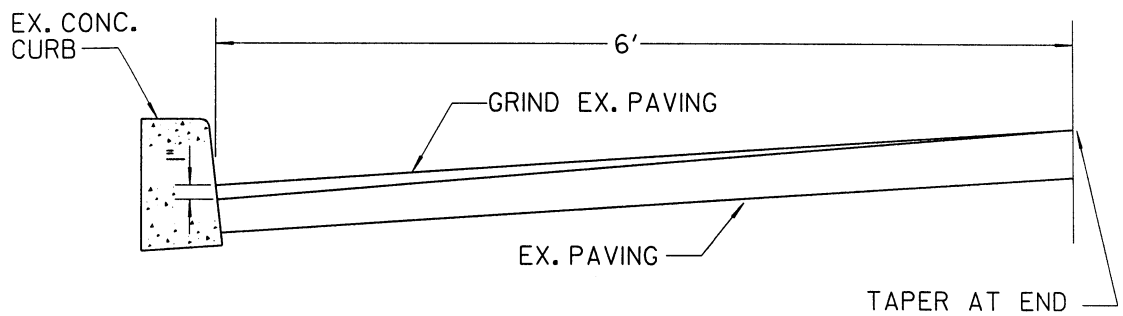
*Michael* 12/16/6  
COORDINATOR R.C.E 65271 - Date

**DRAWING  
NUMBER SDG-138**



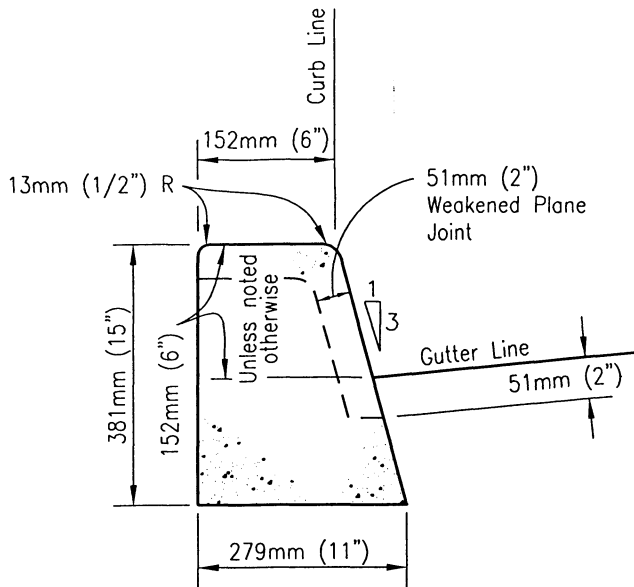
GRINDING & PREPARATION

TYPICAL SECTION  
NO SCALE

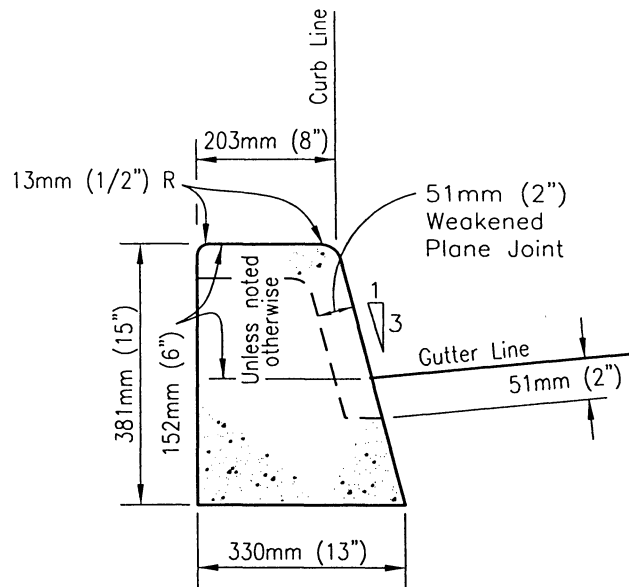


TYPICAL PAVEMENT COLD MILLING  
NO SCALE

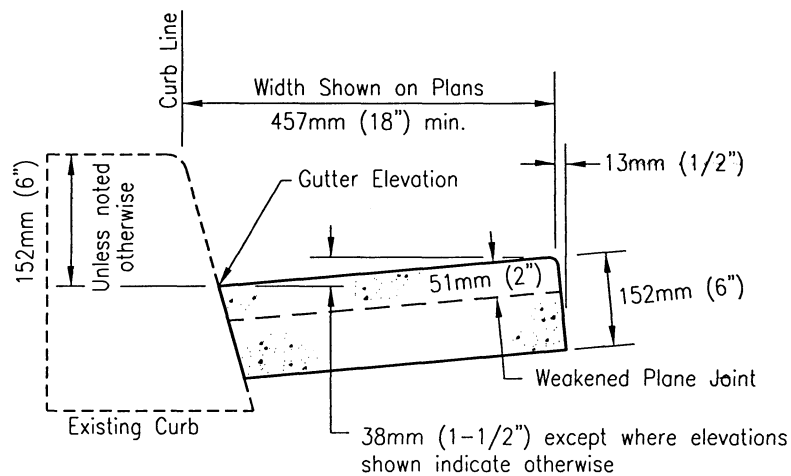
REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>M. Alami</i> 12/16/6 COORDINATOR R.C.E. 65271 DATE
ORIGINAL	BB	A. Oskoui	SJ		
				COLD MILLING ASPHALT CONCRETE PAVEMENT DETAIL	DRAWING NUMBER <b>SDG-139</b>



**152mm (6") CURB**  
Area=0.083m (0.89 Sq. Ft.)



**203mm (8") CURB**  
Area=0.1m (1.09 Sq. Ft.)



## GUTTER

### NOTES:

- Concrete shall be 308kg/M<sup>3</sup>-C-17-MPa (520-C-2500).
- See Standard Drawings G-9 and G-10 for joint details.
- Slope top of curb 6.35mm (1/4") per foot toward street.

### LEGEND ON PLANS

152mm (6") curb

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

### SAN DIEGO REGIONAL STANDARD DRAWING

## CURBS AND GUTTER - SEPARATE

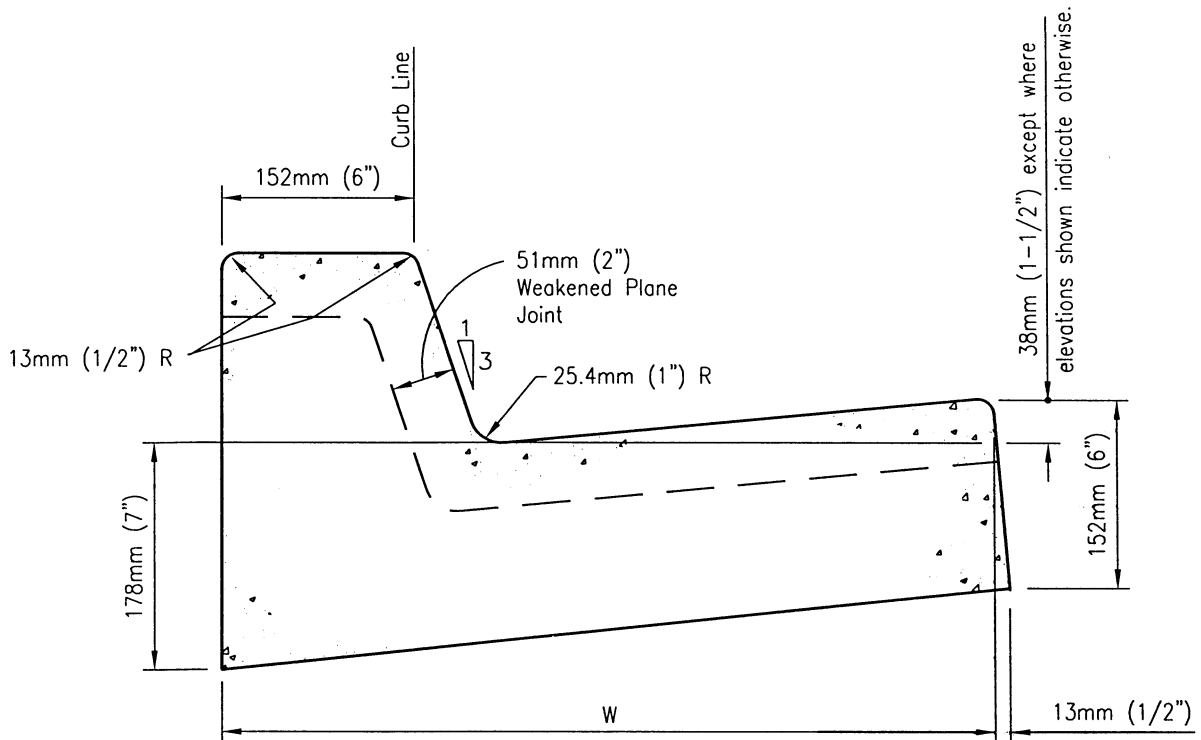
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-1**

SEE SDG-100



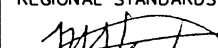
TYPE	W	*AREA
G	610mm (24")	0.124sq. m (1.34sq. ft.)
H	762mm (30")	0.150sq. m (1.61sq. ft.)

\* with 152mm (6") Curb Face

#### NOTES:

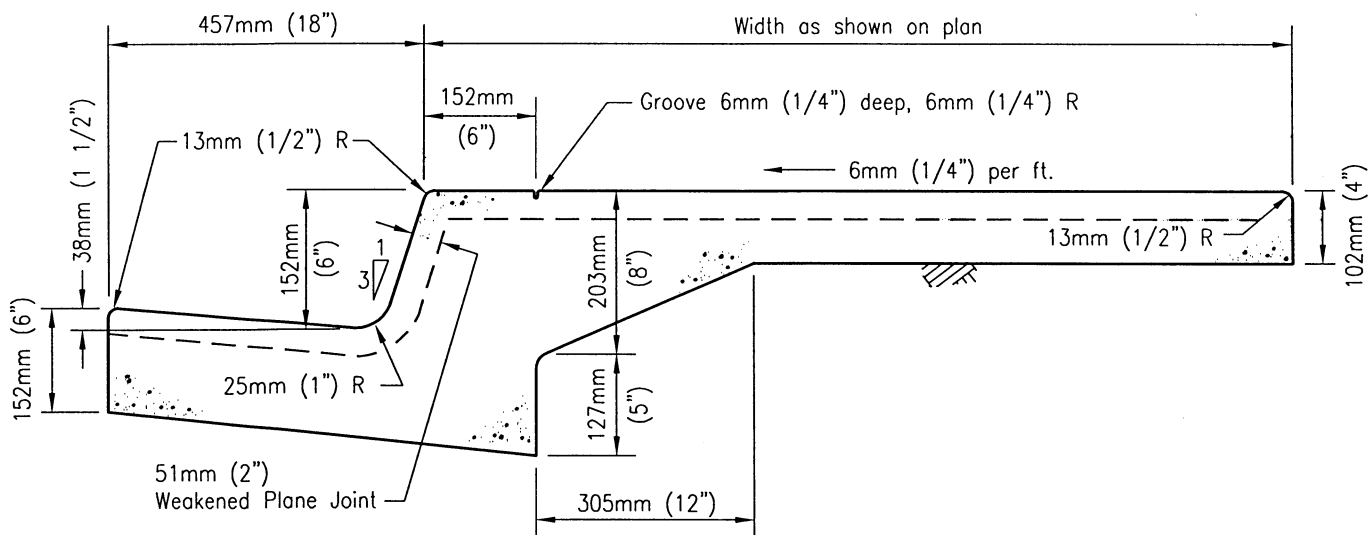
1. Concrete shall be 308kg/M<sup>3</sup>-C-17-MPa (520-C-2500).
2. See Standard Drawings G-9 and G-10 for joint details.
3. Slope top of curb 6.35mm (1/4") per foot toward street.

LEGEND ON PLANS

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75		 3/01/2003
Add Metric		T. Stanton	03/03	Chairperson R.C.E. 19246    Date	
Reformatted		T. Stanton	04/06		
				CURB AND GUTTER - COMBINED	DRAWING NUMBER
					G-2

SEE SDG-100





#### NOTES:

1. Concrete shall be 308kg/M<sup>3</sup>-C-17-MPa (520-C-2500).
2. See Standard Drawings G-9 and G-10 for joint details.
3. Monolithic curb, gutter and sidewalk is to be used with Agency approval only.

#### LEGEND ON PLANS

Concrete

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

#### SAN DIEGO REGIONAL STANDARD DRAWING

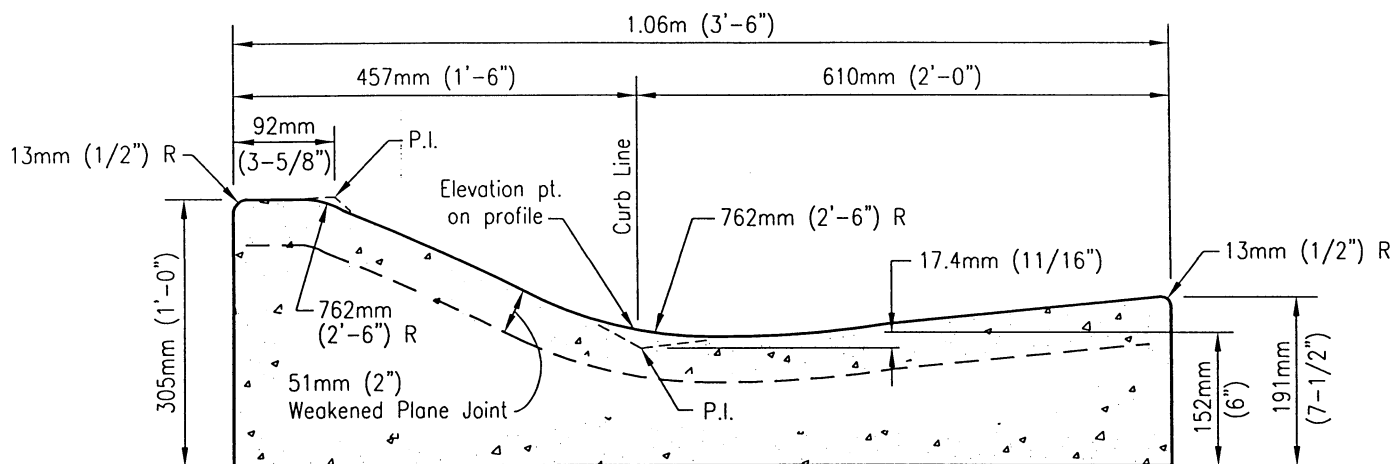
### MONOLITHIC CURB, GUTTER AND SIDEWALK

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

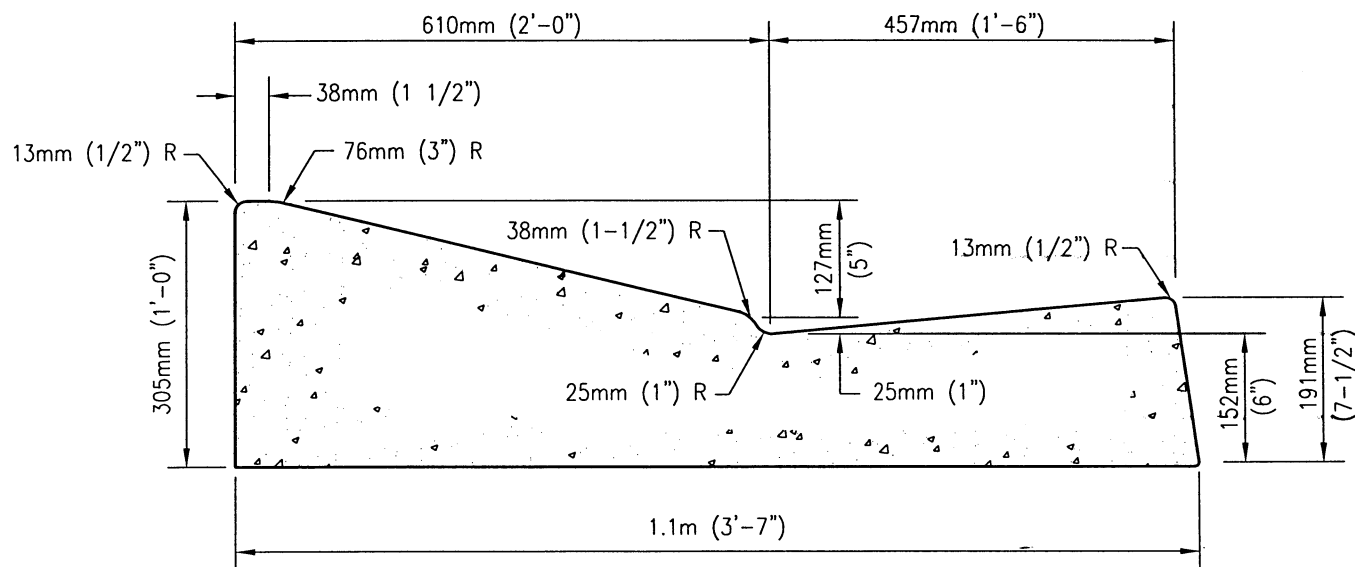
*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-3**

SEE SDG-100



**TYPE A**  
**CURB AREA**  
(0.21 sq. m (2.23 sq. ft.))

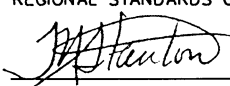


**TYPE B**  
**CURB AREA**  
(0.23 sq. m (2.48 sq. ft.))

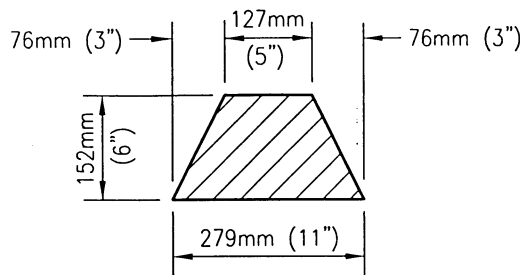
**NOTES:**

1. Transition to type G curb at all curb returns, except where sidewalk ramps are provided, and at all cul-de-sacs with drainage structures.
2. Concrete shall be 308kg/M<sup>3</sup>-C-17-MPa (520-C-2500).
3. See Standard Drawings G-9 and G-10 for joint details.

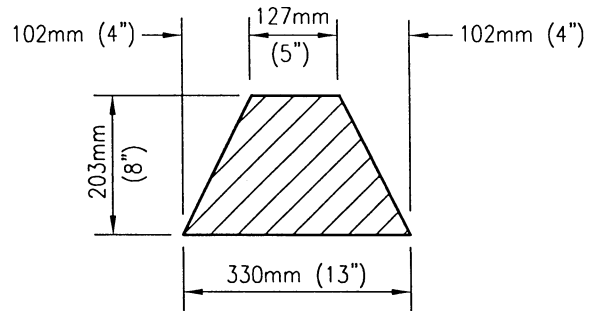
LEGEND ON PLANS

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75		
Add Metric		T. Stanton	03/03	CURB AND GUTTER - ROLLED	 3/01/2003 Chairperson R.C.E. 19246 Date
Reformatted		T. Stanton	04/06		
					DRAWING NUMBER <b>G-4</b>

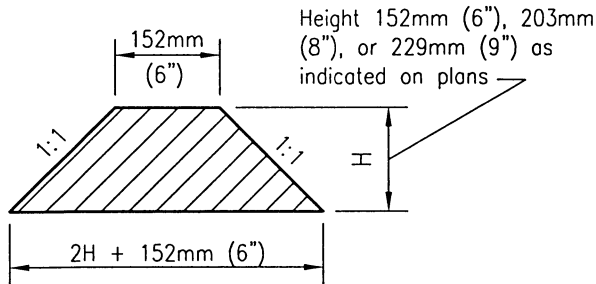
SEE SDG-100



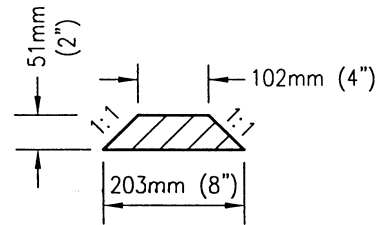
TYPE A



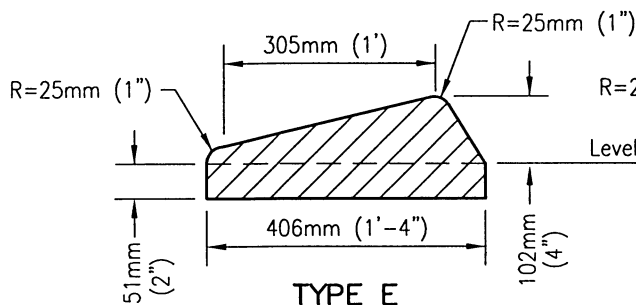
TYPE B



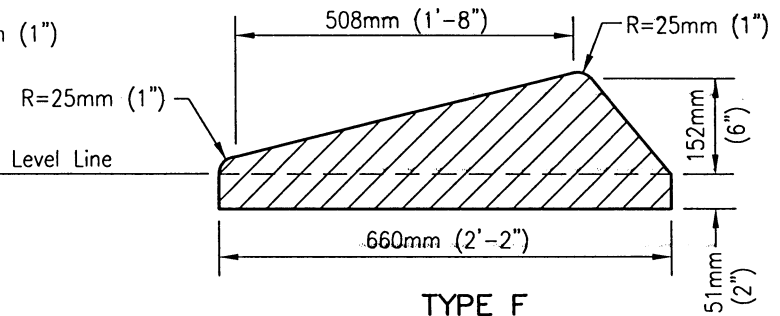
TYPE C



TYPE D

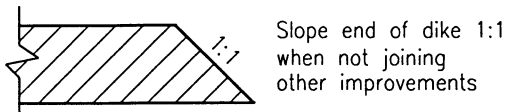


TYPE E



TYPE F

MOUNTABLE DIKES



ALL TYPES - SIDE VIEW

NOTES:

1. Dikes shall be placed on a 51mm (2 inches) of A.C. surfacing, extending throughout the width of the dike.
2. PG-70-10 grade asphalt to be used for all dikes.
3. A.C. dikes may be shaped and compacted with an extrusion machine or other equipment capable of shaping and compacting the material to the required cross section.

APPROX. DIKE QUANTITIES

TYPE	REQD PER LIN. FT.
A	25.4kg (0.0250 tn.)
B	38.1kg (0.0375 tn.)
C-152mm (6 inches)	38.1kg (0.0375 tn.)
C-203mm (8 inches)	59.2kg (0.0583 tn.)
C-229mm (9 inches)	71.3kg (0.0702 tn.)
D	6.3kg (0.0062 tn.)
E	41.4kg (0.0407 tn.)
F	63.3kg (0.0623 tn.)

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

DIKES - ASPHALT CONCRETE

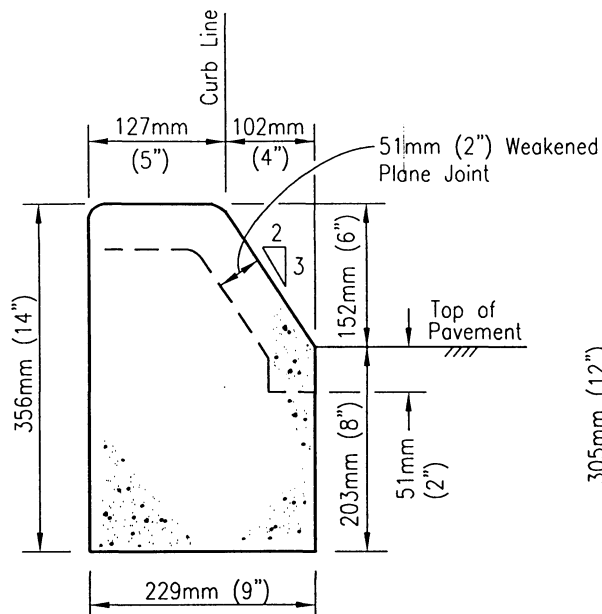
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

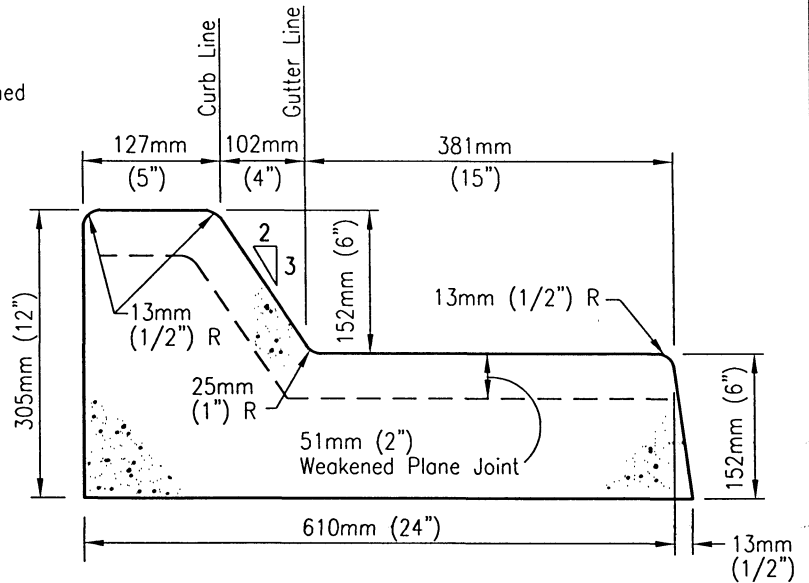
DRAWING  
NUMBER

G-5



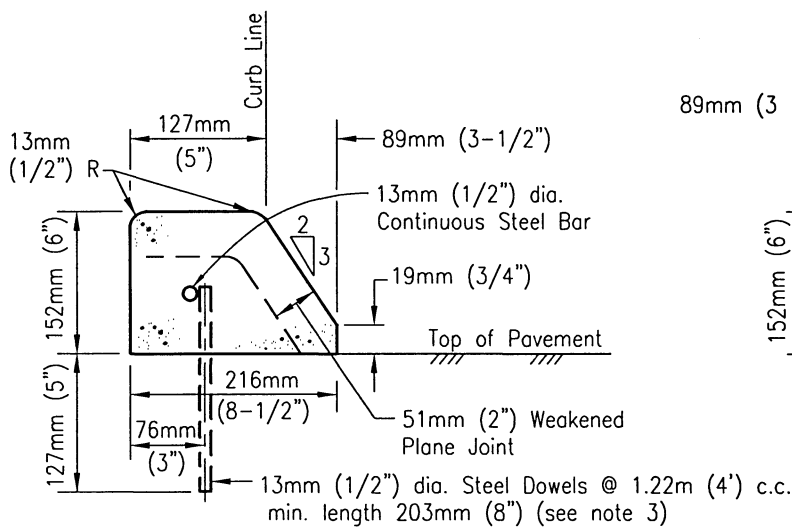
**B-1**

Area=0.073 sq. m (0.79 Sq.Ft.)



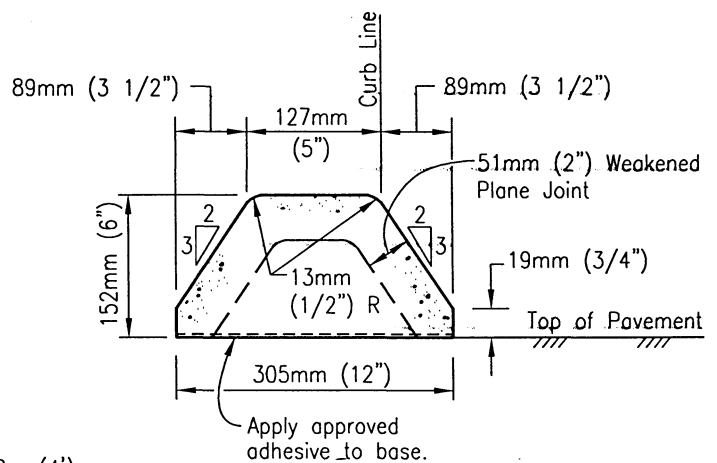
**B-2**

Area=0.120 sq. m (1.29 Sq.Ft.)



**B-3**

Area=0.027 sq. m (0.29 Sq.Ft.)



**B-4**

Area=0.033 sq. m (0.35 Sq.Ft.)

**NOTES:**

- Concrete shall be 308kg/m<sup>3</sup>-C-17-MPa (520-C-2500).
- See Standard Drawings G-9 and G-10 for joint details.
- Extruded type B-3 curb shall be anchored to existing pavement by placing steel dowels and reinforcing steel as shown or by using an approved adhesive.

**LEGEND ON PLANS**

Type B-2 Curb and Gutter

Type B-1, B-3, B-4 Curb

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

**CURBS AND GUTTER - MEDIANS**

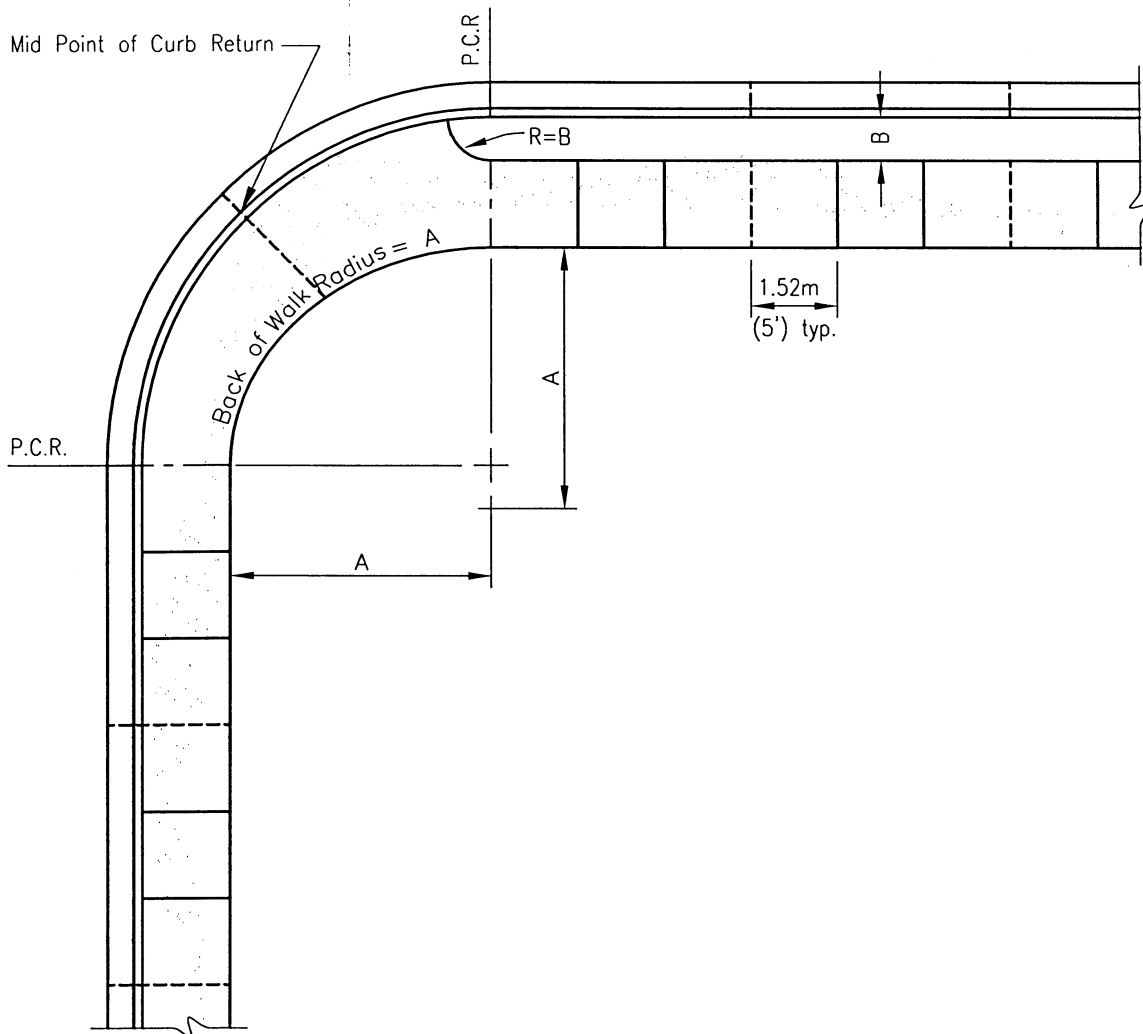
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-6**

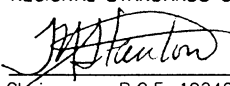


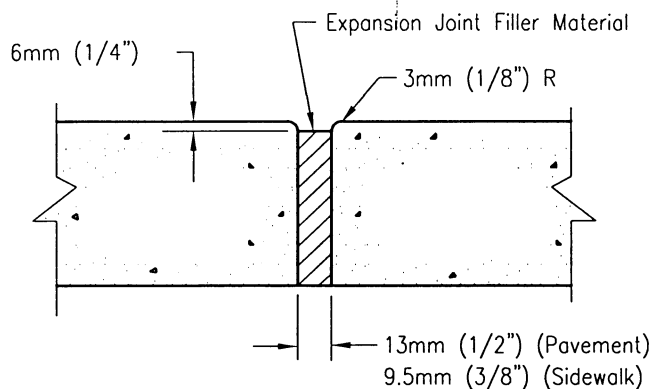
SEE SDG-100



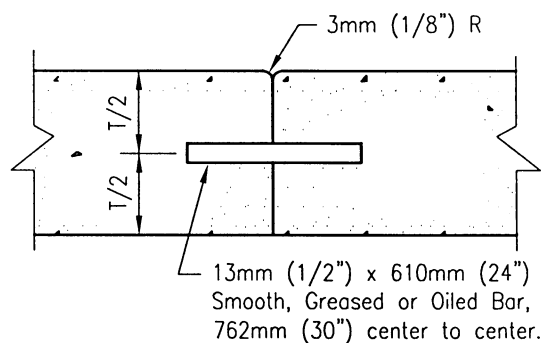
**NOTES:**

1. Expansion joints — — — at curb returns, adjacent to structures and at 13.7m (45') intervals.  
(See Standard Drawing G-10).
2. Weakened Plane Joints - - - - - at mid point of curb return, when required, and at 4.57m (15') intervals from P.C.R.'s  
(See Standard Drawing G-10).
3. 6.35mm (1/4") grooves ——— with 6.35mm (1/4") radius edges at 1.52m (5') intervals.

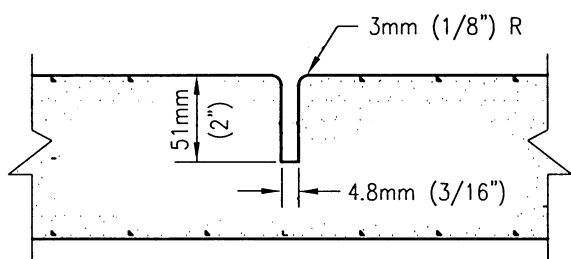
Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>  <b>SIDEWALK JOINT LOCATIONS</b>		RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75			 3/01/2003 Chairperson R.C.E. 19246 Date
Add Metric		T. Stanton	03/03			DRAWING
Reformatted		T. Stanton	04/06			NUMBER
						<b>G-9</b>



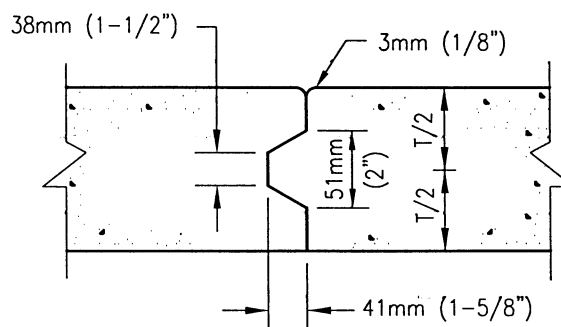
EXPANSION JOINT




CONTACT JOINT

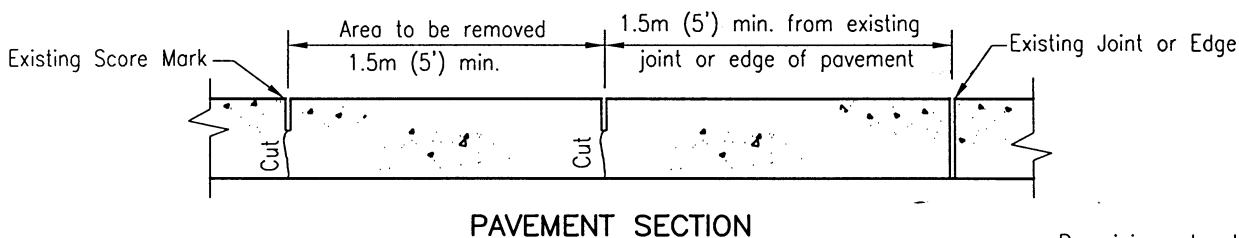
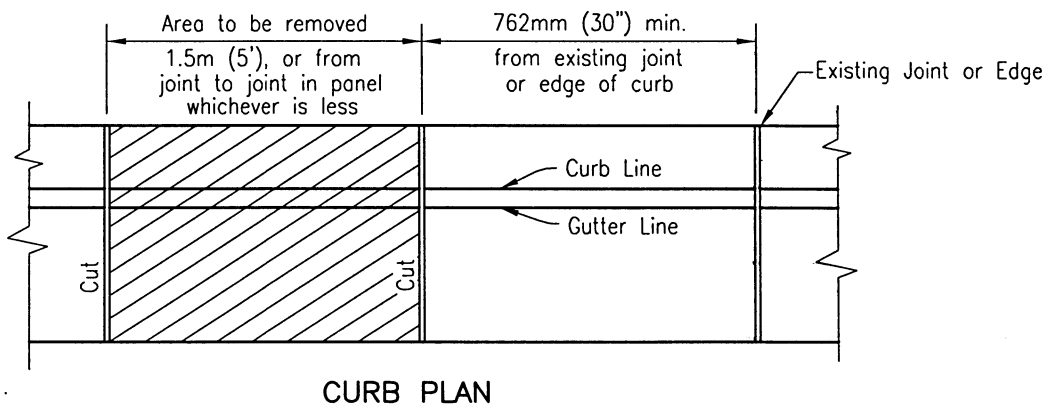
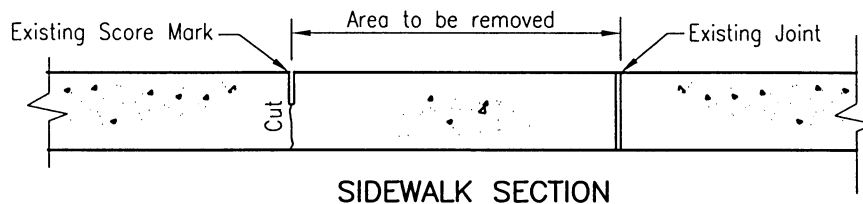
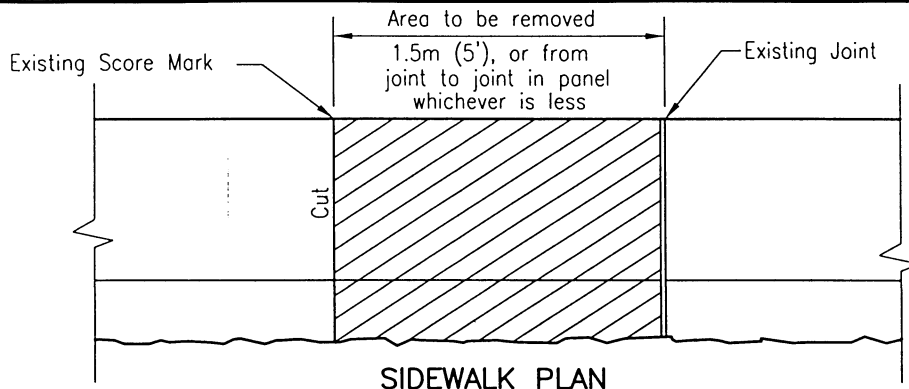


WEAKENED PLANE JOINT  
CURB AND SIDEWALK



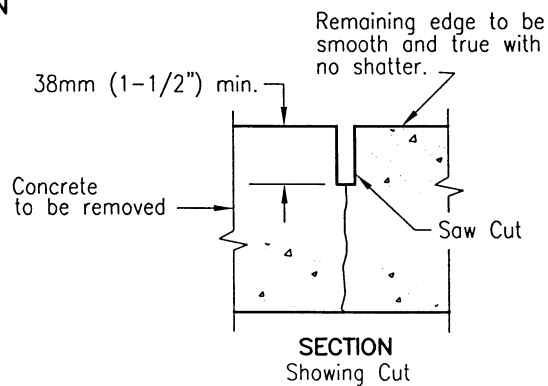
KEYED JOINT

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Parkinson	2/95		
Add Metric		T. Stanton	03/03	CONCRETE JOINT DETAILS	 3/01/2003 Chairperson R.C.E. 19246 Date
Reformatted		T. Stanton	04/06		
					DRAWING NUMBER <b>G-10</b>



**NOTE:**

When distance from "Area to be removed" to existing joint, edge or score mark is less than minimum shown, "Area to be removed" shall be extended to joint, edge or score mark.



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

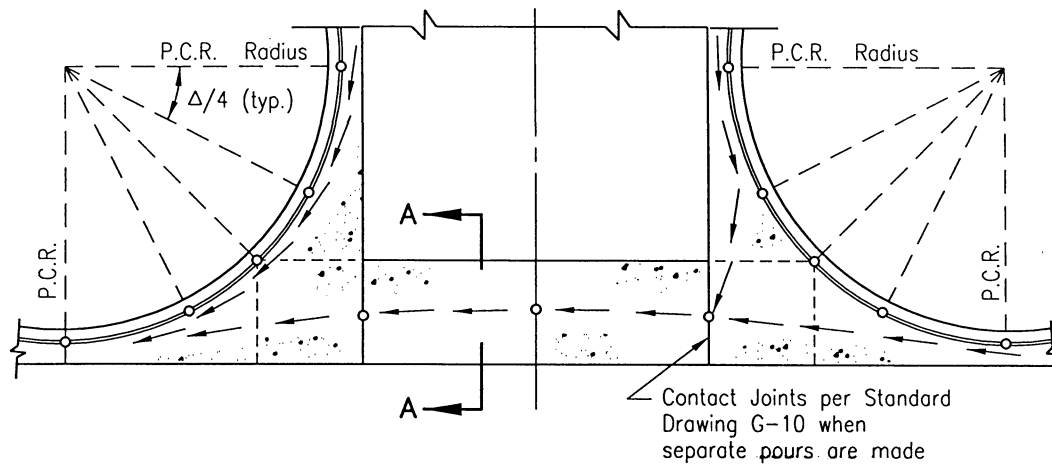
**CONCRETE CURB, GUTTER,  
SIDEWALK AND PAVEMENT  
REMOVAL AND REPLACEMENT**

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

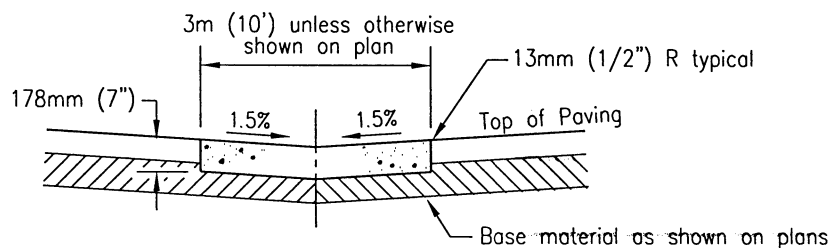
*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-11**





PLAN

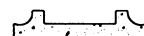


SECTION A-A

**NOTES:**

1. Concrete shall be 332kg/m<sup>3</sup>-C-22-MPa (560-C-3250).
2. ----- = Weakened plane joints.
3. ← ← = Typical flowlines.
4. o = Elevations to be shown on plans.
5. Return segments to be 178mm (7") Thick.
6. Curb between P.C.R.s. shall be considered as part of cross gutter.
7. In all cases subgrade shall be compacted to 95% min. relative compaction to depth of 305mm (12").

**LEGEND ON PLANS**



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

**SAN DIEGO REGIONAL STANDARD DRAWING**

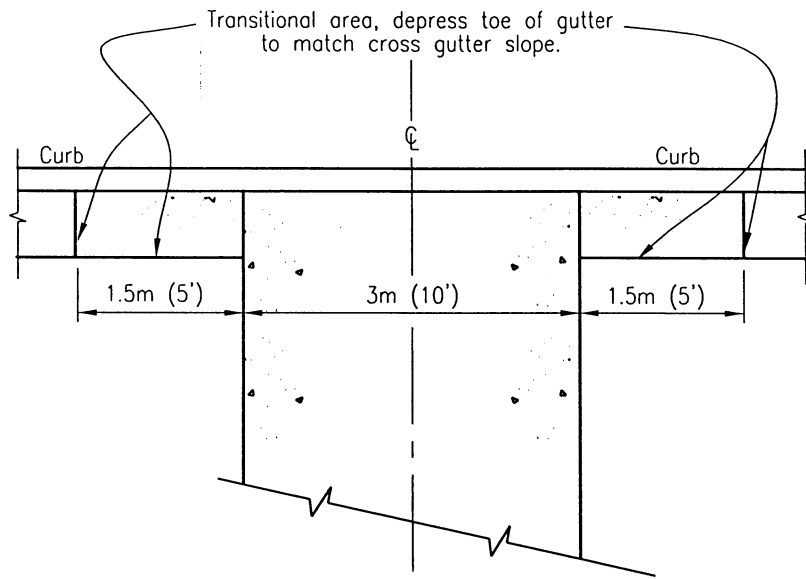
**CROSS GUTTER**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

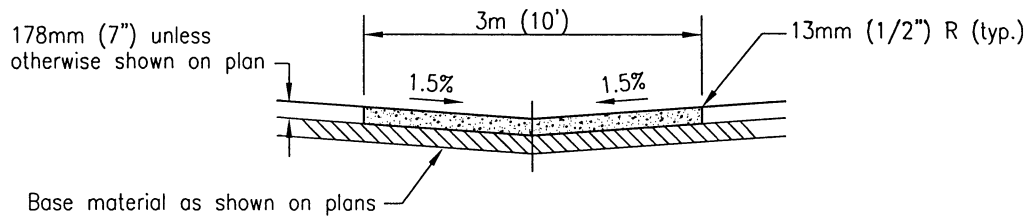
*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-12**



PLAN

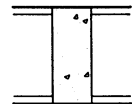



SECTION

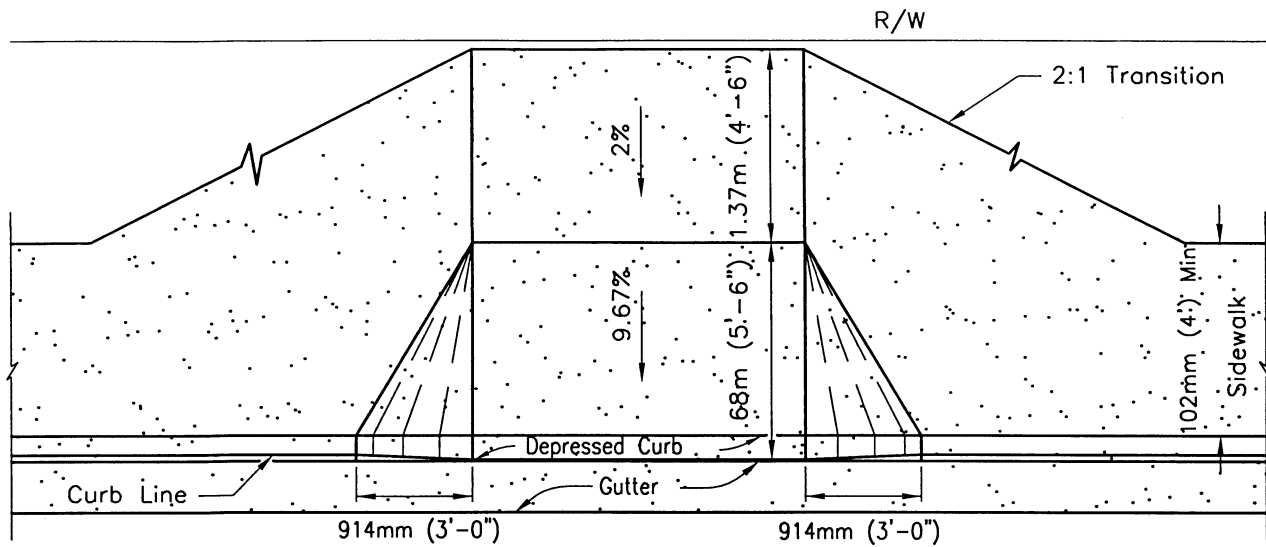
NOTES:

1. Cross gutter to be constructed where the drainage is carried across street.
2. Minimum allowable cross slope is 0.5%
3. Concrete shall be 332kg/m<sup>3</sup>-C-22-MPa (560-C-3250).
4. In all cases subgrade shall be compacted to 95% minimum relative compaction to depth of 305mm (12").

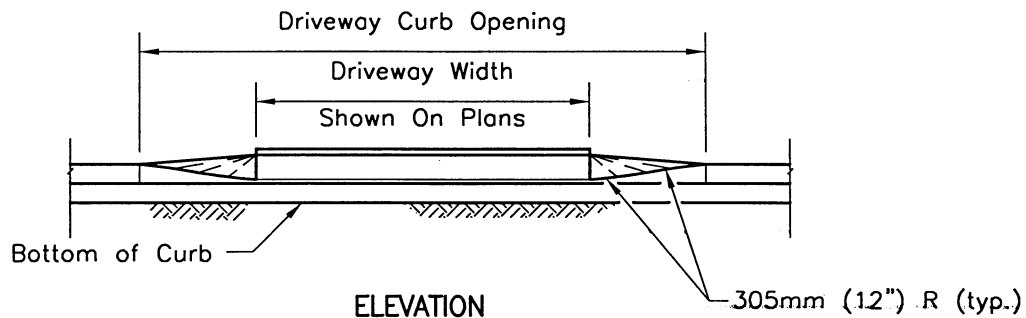
LEGEND ON PLANS



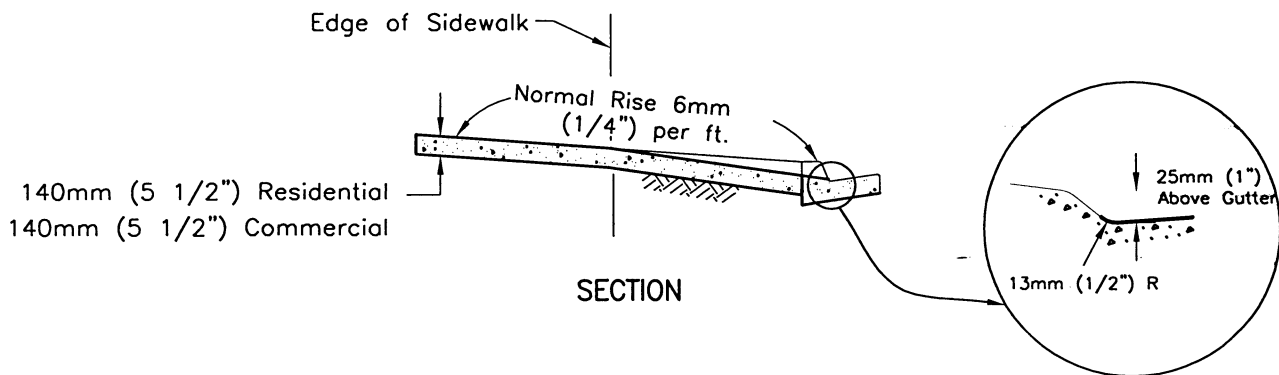
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING		RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE	
ORIGINAL		Kercheval	12/75			<div> 3/01/2003</div> <div>Chairperson R.C.E. 19246    Date</div> <div>DRAWING NUMBER <b>G-13</b></div>	
Add Metric		T. Stanton	03/03				
Reformatted		T. Stanton	03/03				
				MID-BLOCK CROSS GUTTER			



PLAN



ELEVATION



SECTION

NOTES:

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 332 kg/M<sup>3</sup> C 22 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements.
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL		R. Munoz	4/97
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

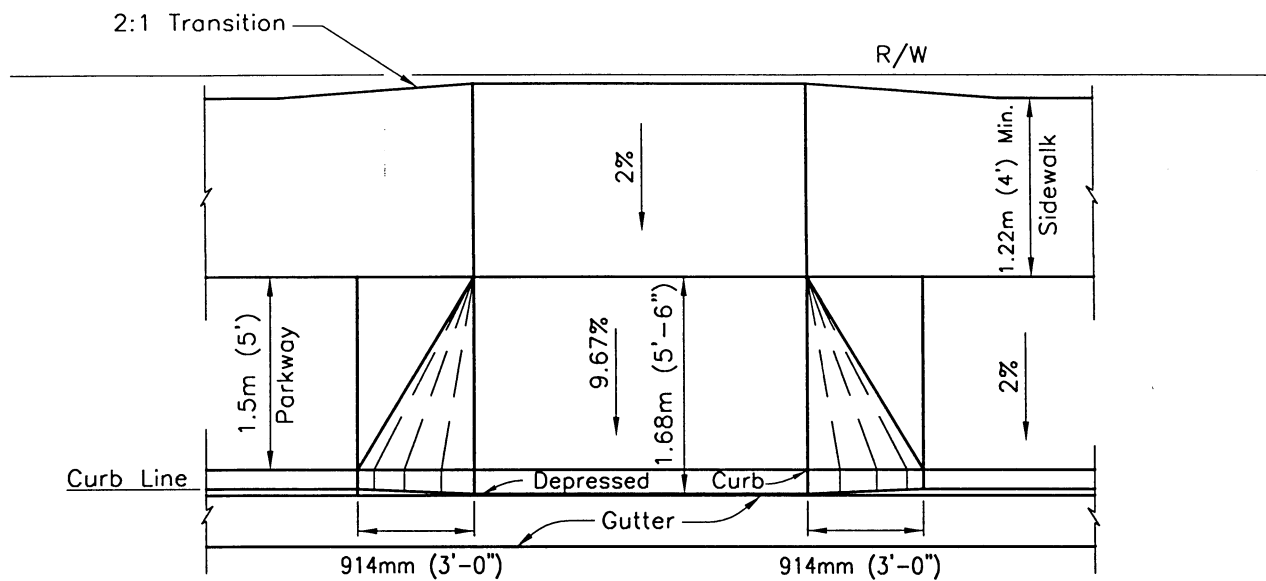
CONCRETE DRIVEWAY  
(CONTIGUOUS SIDEWALK)

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

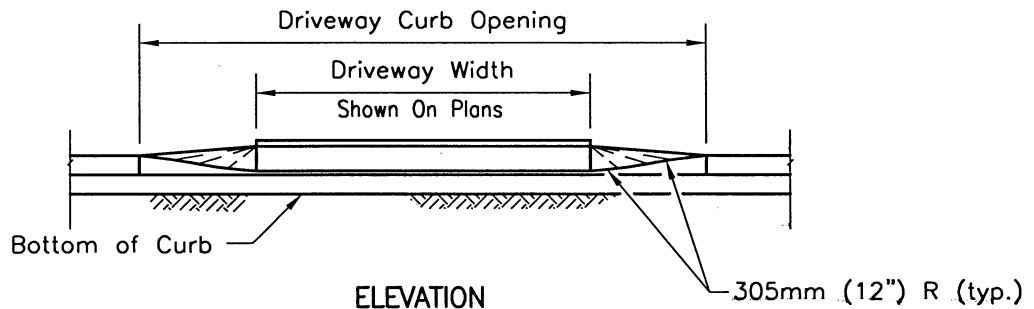
*T. Stanton* 3/10/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-14A**

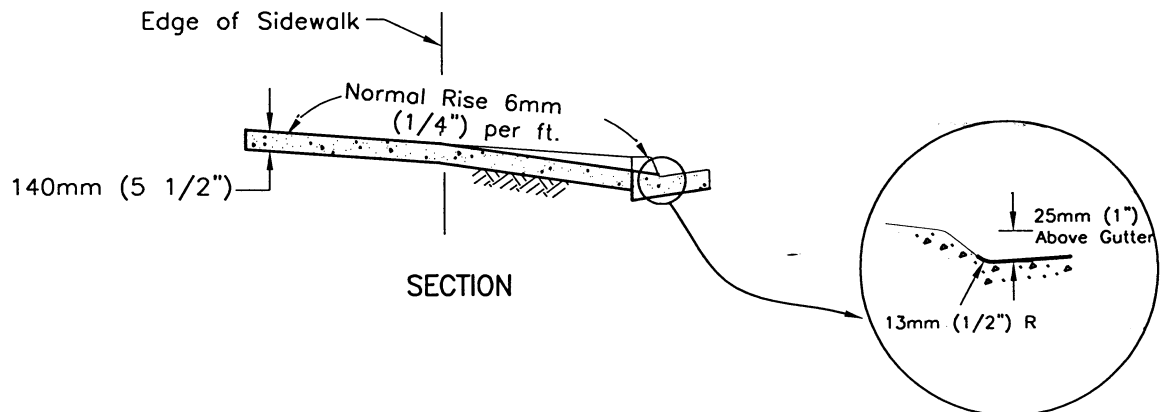
SEE SDG-100



PLAN



ELEVATION

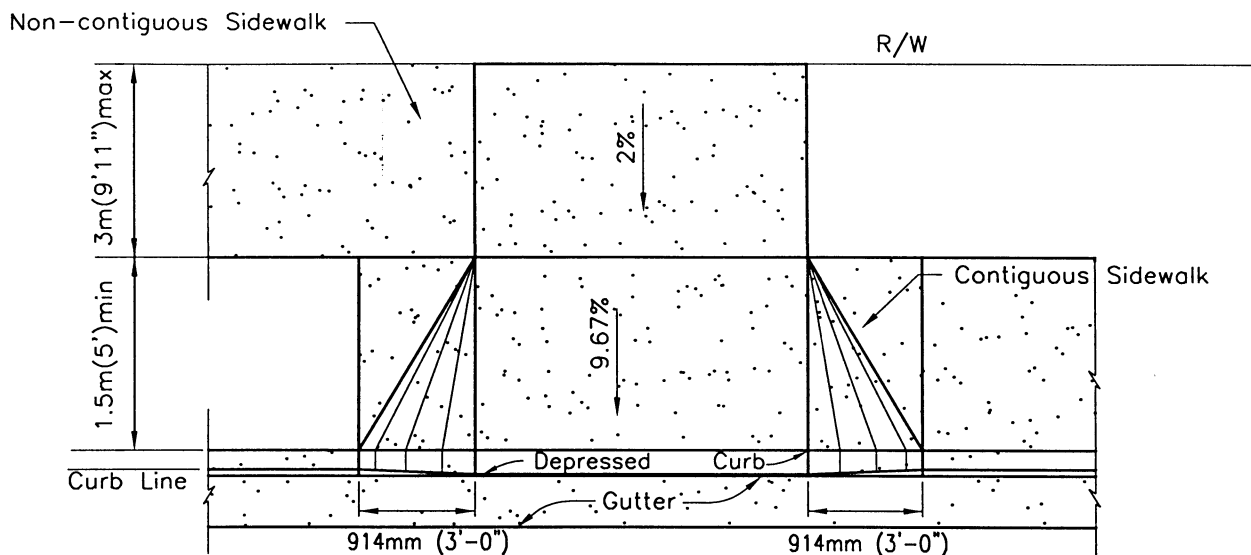


SECTION

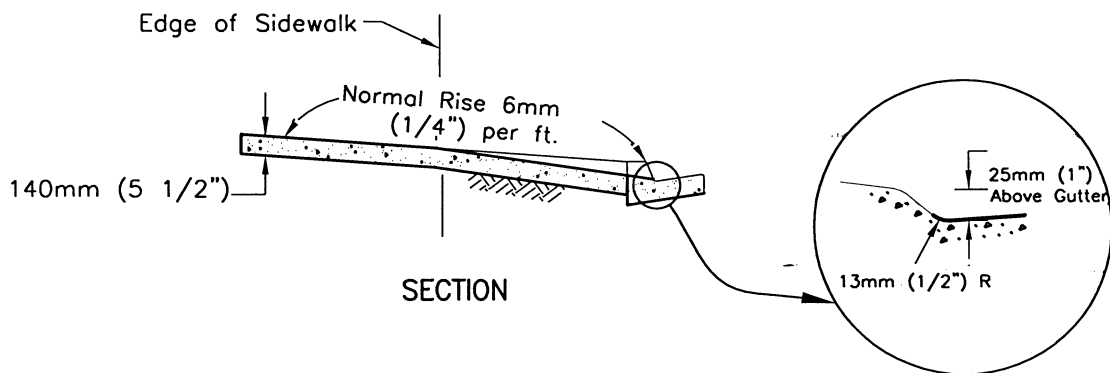
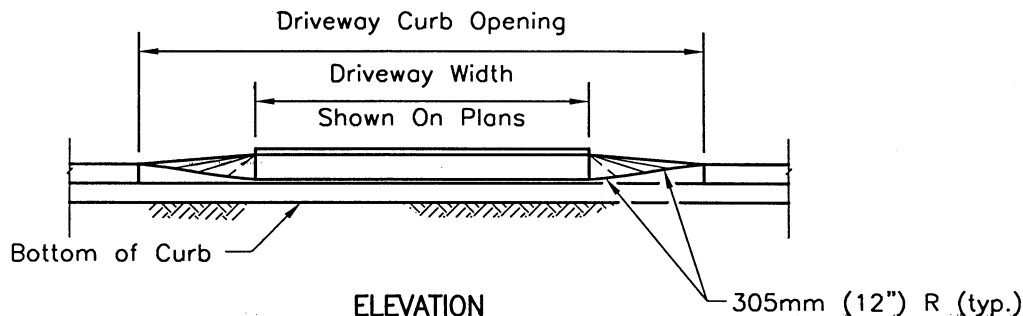
NOTES:

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M<sup>3</sup> C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements.
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		R. Munoz	4/97		
Add Metric		T. Stanton	03/03	CONCRETE DRIVEWAY (NON-CONTIGUOUS SIDEWALK)	 3/01/2003 Chairperson R.C.E. 19246 Date
Reformatted		T. Stanton	04/06		
					DRAWING NUMBER <b>G-14B</b>



PLAN



NOTES:

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M<sup>3</sup> C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements.
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL		R. Munoz	4/97
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

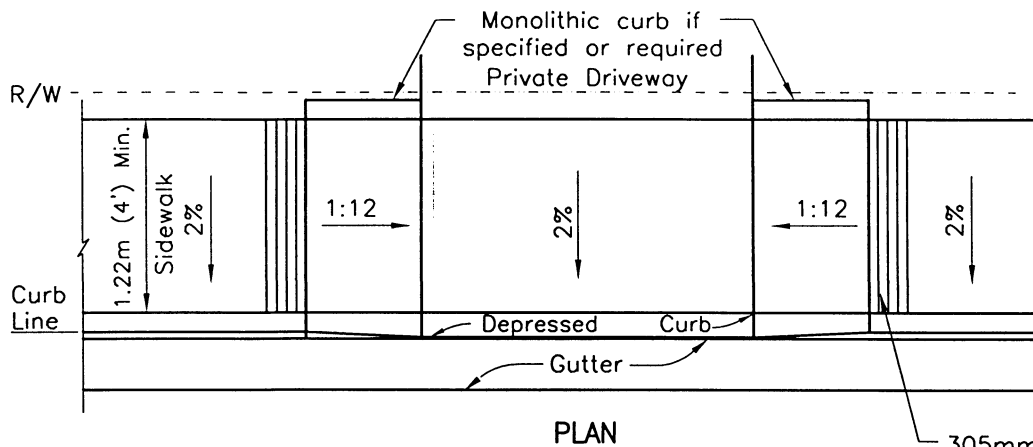
RESIDENTIAL  
CONCRETE DRIVEWAY  
(PARKWAY LESS THAN 3.0m (10') IN DEPTH)

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-14C**

SEE SDG-100



305mm (12") wide border  
with 6mm (1/4") grooves  
approx. 19mm (3/4") O.C.

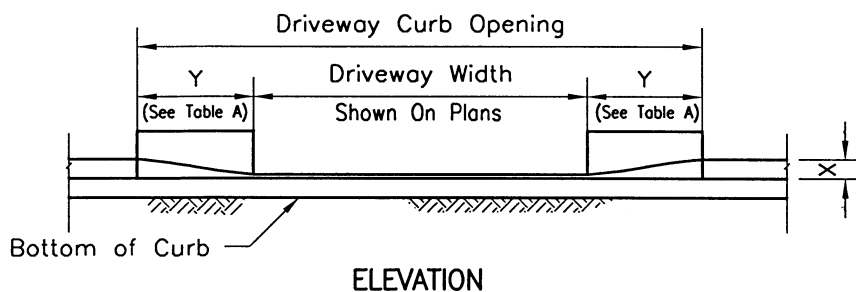
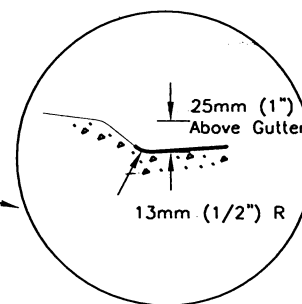
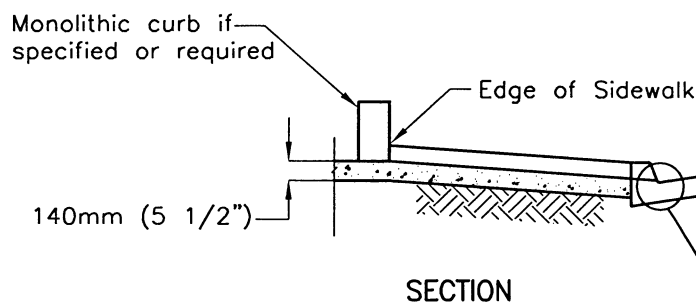


TABLE A	
X	Y
CURB HEIGHT	RAMP LENGTH
25mm (1")	152mm (0'-6")
51mm (2")	457mm (1'-6")
76mm (3")	762mm (2'-6")
102mm (4")	1.10m (3'-6")
127mm (5")	1.40m (4'-6")
152mm (6")	1.70m (5'-6")
178mm (7")	2.0m (6'-6")
203mm (8")	23m (7'-6")



#### NOTES:

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M<sup>3</sup> C 17 Mpa (520-C-2500).
3. See Standard Drawings G-15 and G-16 for width and location requirements.
4. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date
ORIGINAL	HH	T. Stanton	02/03
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

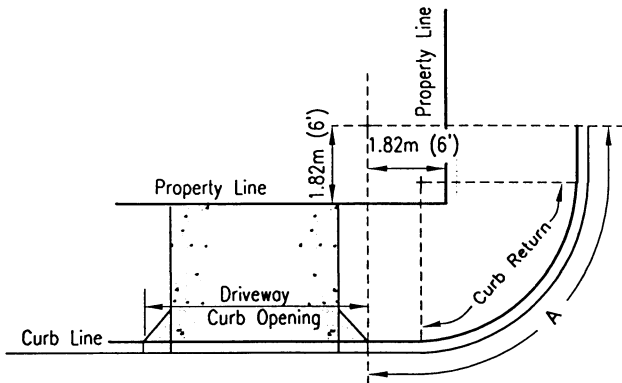
#### SAN DIEGO REGIONAL STANDARD DRAWING

### CONCRETE DRIVEWAY (FOR CONFINED RIGHT-OF-WAY)

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

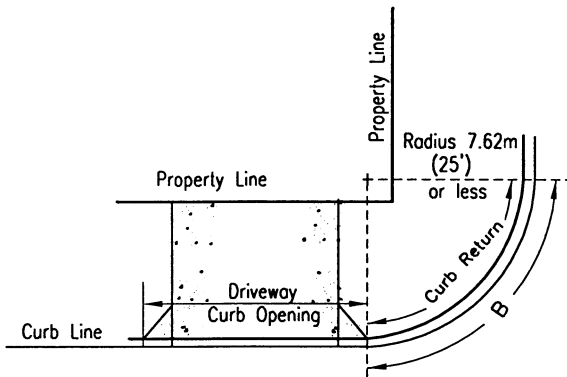
*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-14D**



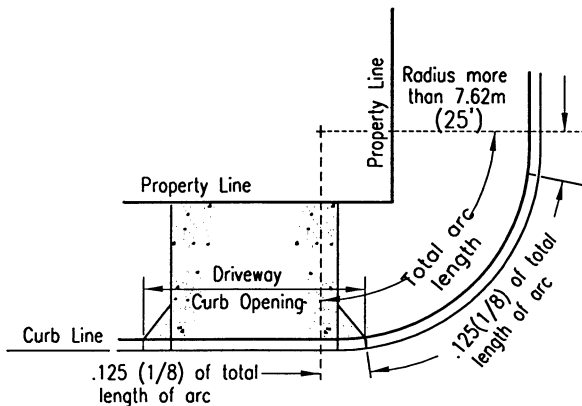
#### REQUIREMENT 1

No portion of any curb opening shall be permitted within 6' of the intersection of the prolonged property lines and the curb as shown by arc A.



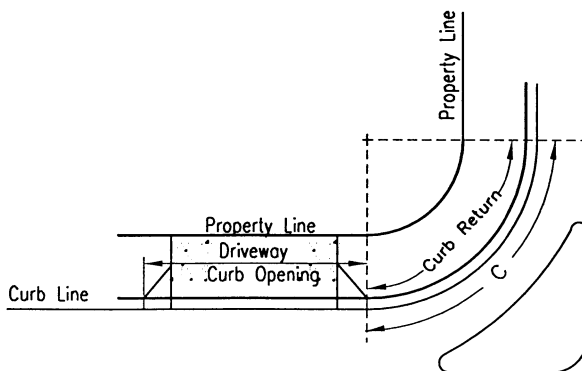
#### REQUIREMENT 2

No portion of any curb opening shall be permitted in the curb return where the radius of curb is 7.62m (25') or less, as shown by arc B.



#### REQUIREMENT 3

On all curb returns where the radius is more than 25', curb openings may encroach upon each end of the return a distance equal to 12 1/2% or .125 (1/8) of the total length of the arc on the curb return, thus leaving at least 75% of the length of arc on the return face free from driveway encroachment, provided Requirement 1 is met.



#### REQUIREMENT 4

No portion of any curb opening shall be permitted in the curb return where a separate turning movement is provided, as shown by arc C.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

**DRIVEWAY LOCATION - ADJACENT TO  
CURB RETURNS AND STREET LINES**

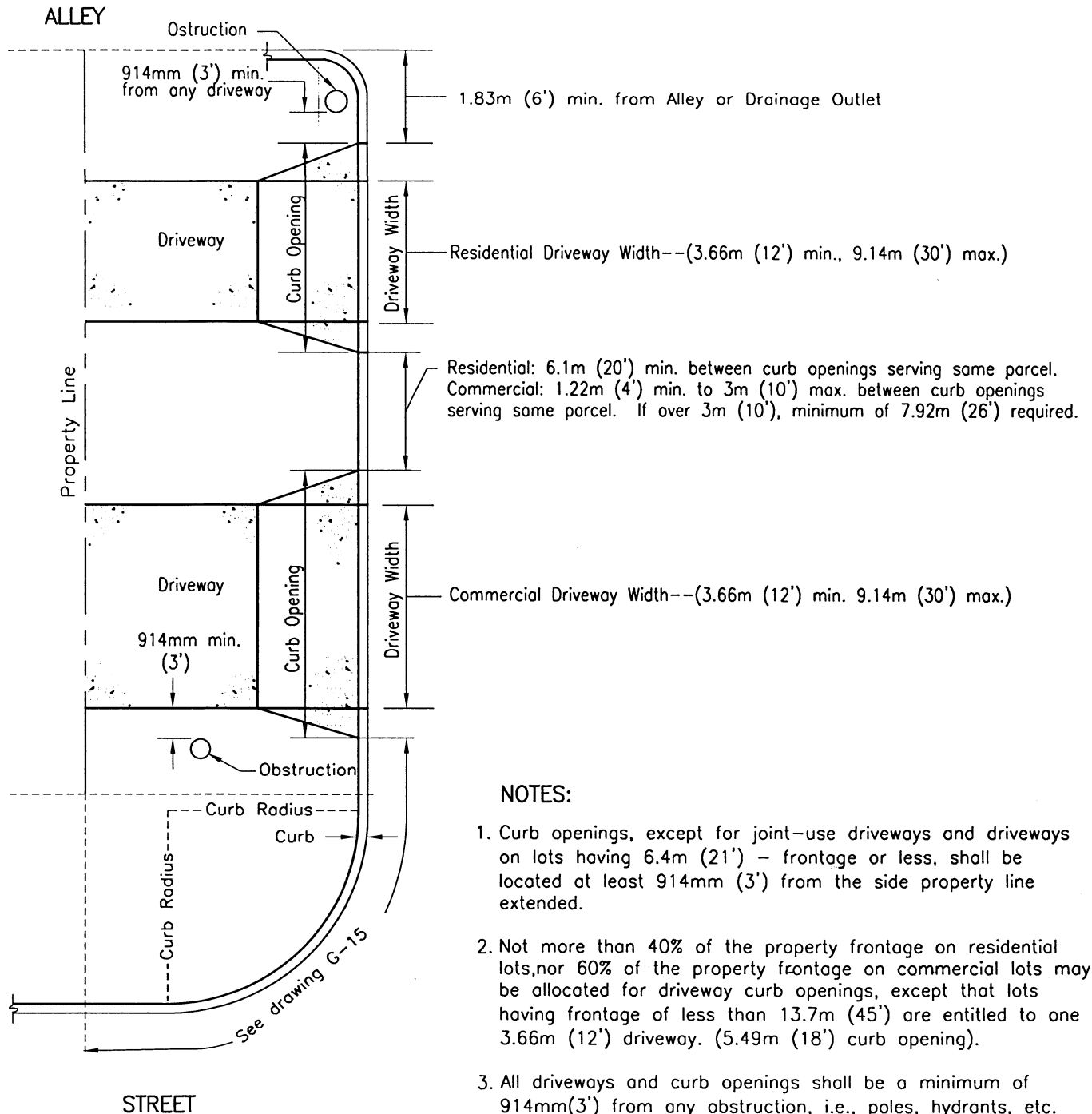
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER

**G-15**



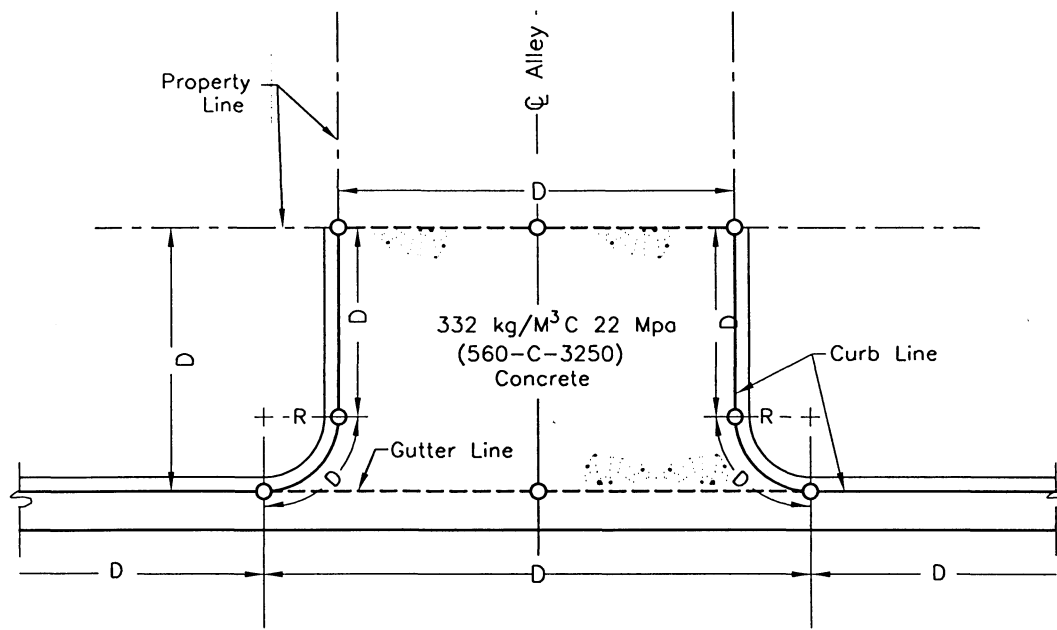
#### NOTES:

1. Curb openings, except for joint-use driveways and driveways on lots having 6.4m (21') - frontage or less, shall be located at least 914mm (3') from the side property line extended.
2. Not more than 40% of the property frontage on residential lots, nor 60% of the property frontage on commercial lots may be allocated for driveway curb openings, except that lots having frontage of less than 13.7m (45') are entitled to one 3.66m (12') driveway. (5.49m (18') curb opening).
3. All driveways and curb openings shall be a minimum of 914mm (3') from any obstruction, i.e., poles, hydrants, etc.
4. No portion of any driveway shall be allowed across a line extending normal to the roadway from the front corner of the property, except that joint-use driveways may be permitted in special instances where written approval of both property owners is filed with the Agency.

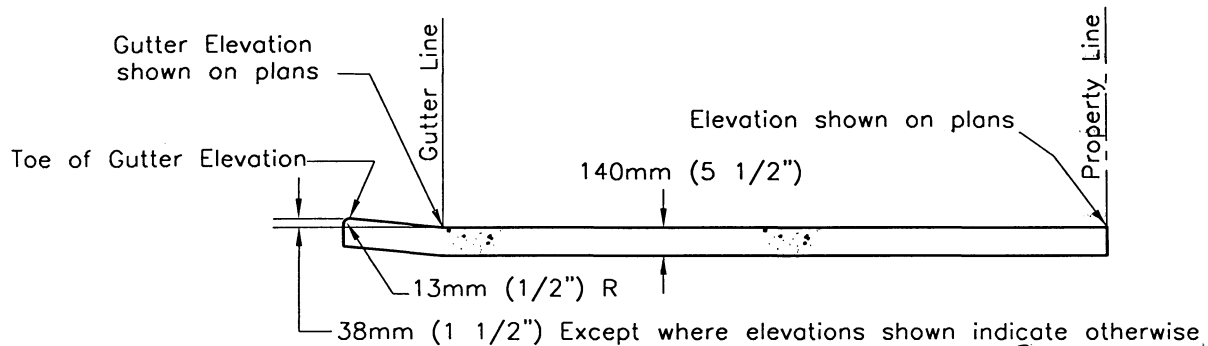
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75		
Add Metric		T. Stanton	03/03	<b>DRIVEWAY LOCATION AND WIDTH REQUIREMENTS</b>	 3/01/2003 Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		

DRAWING  
NUMBER **G-16**





PLAN

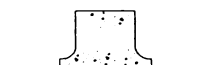


SECTION

NOTES:

1. Sidewalk ramps shall be installed as required by Agency.
2. D= distance shown on plans.
3. R= radius shown on plans (914mm (3') minimum).
4. O= elevations shown on plans (top of curb, and gutter elev.)
5. --- = 13mm (1/2") expansion joints.

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

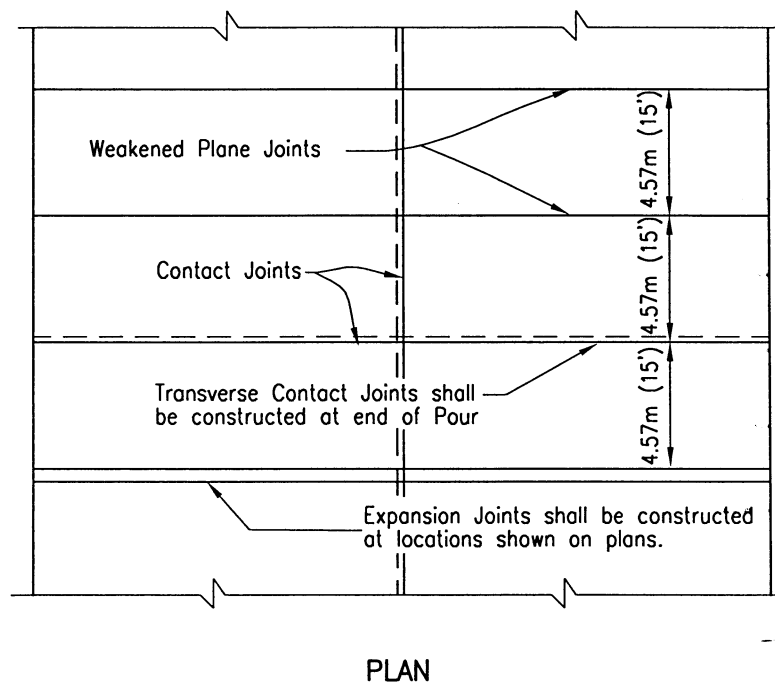
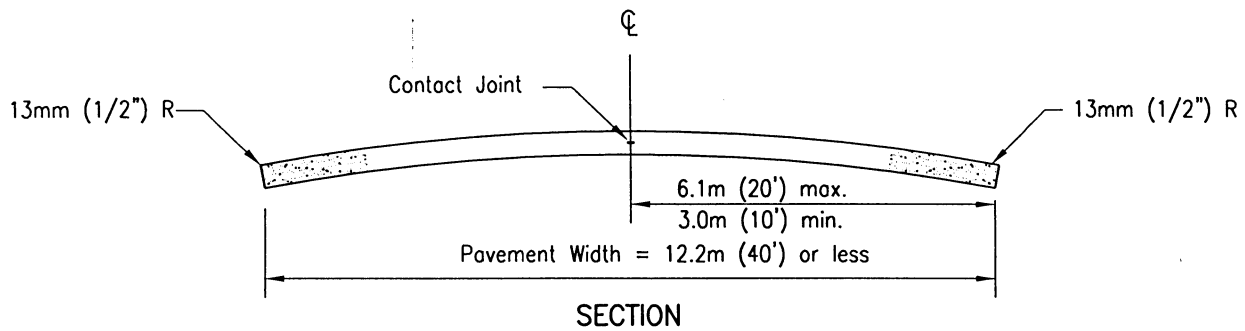
ALLEY APRON

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-17**

SEE SDG-100



#### NOTES:

1. Concrete shall be 332 kg/M<sup>3</sup> C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

#### SAN DIEGO REGIONAL STANDARD DRAWING

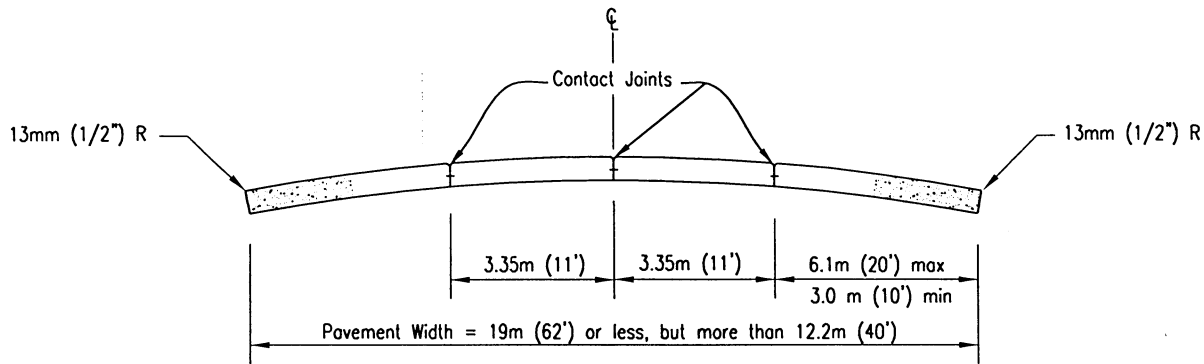
### CONCRETE PAVEMENT WIDTH 12.2m (40') OR LESS

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

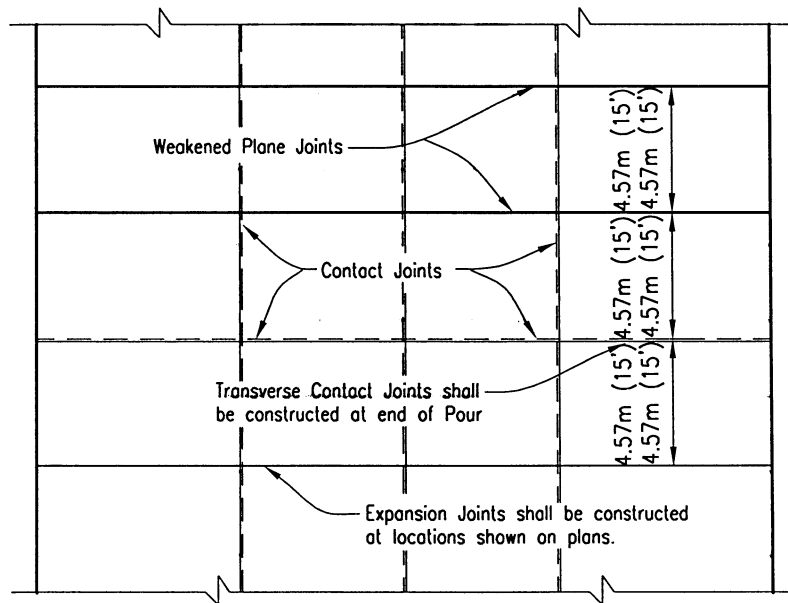
*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-18**



SECTION



PLAN

NOTES:

1. Concrete shall be 332 kg/M<sup>3</sup> C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

CONCRETE PAVEMENT  
WIDTH 12.2m (40') TO 19m (62')

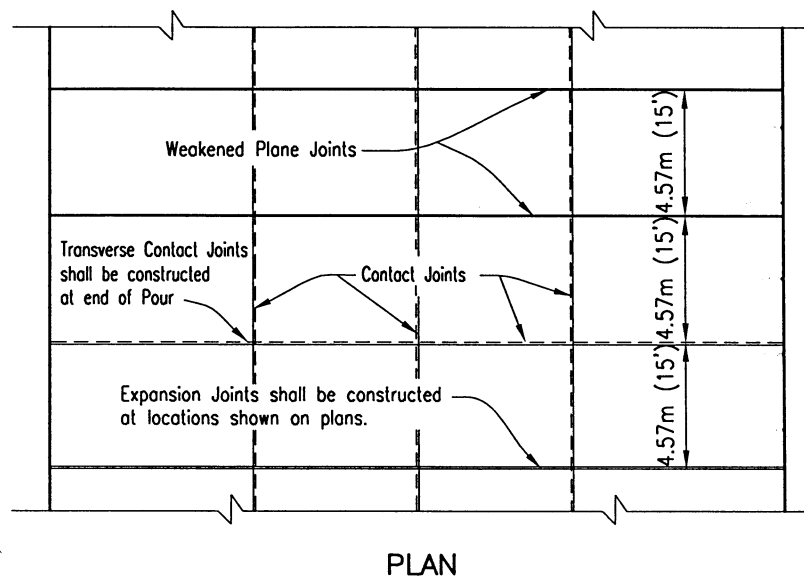
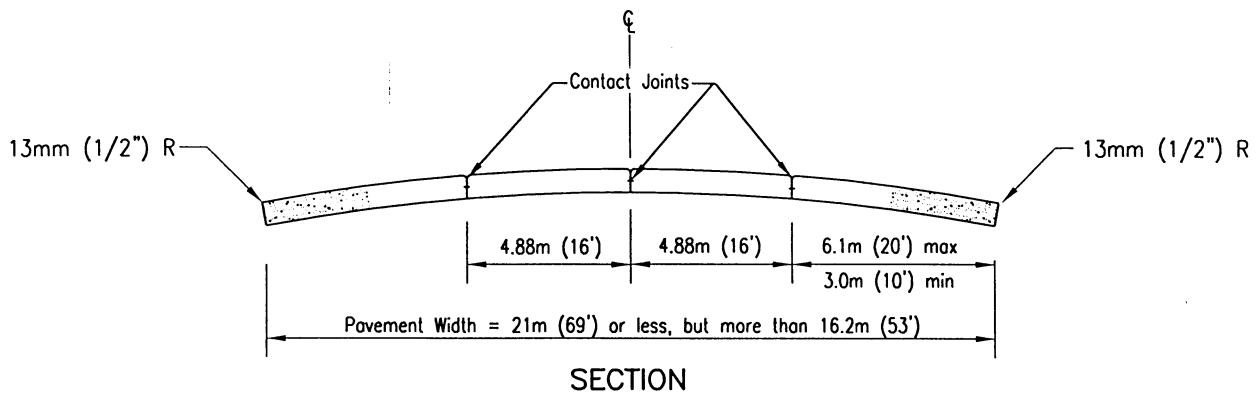
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 3/01/2003

Chairperson R.C.E. 19246 Date


DRAWING  
NUMBER

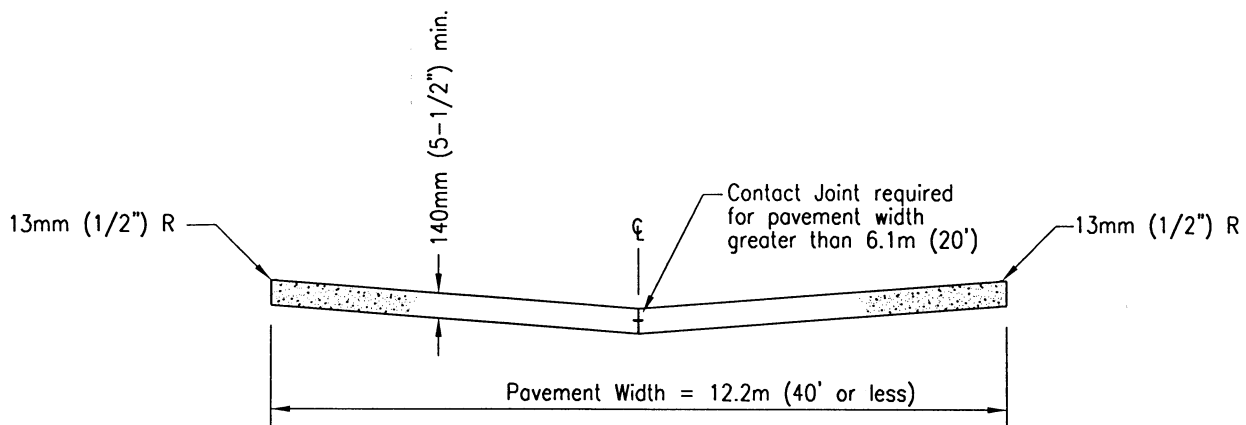
G-19



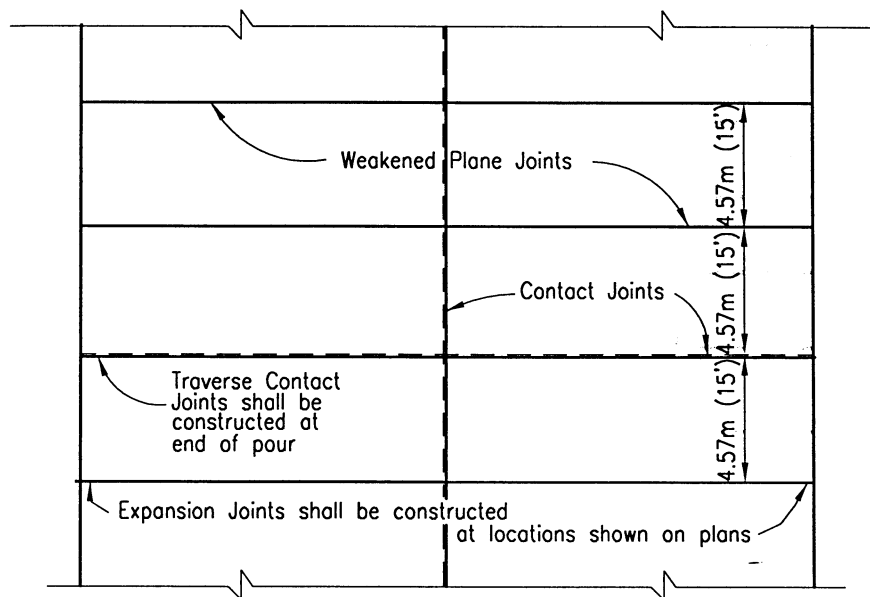
# NOTES:

- Concrete shall be 332 kg/M<sup>3</sup> C 22 Mpa (560-C-3250).
- See Standard Drawing G-10 for joint details.
- Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>  <b>CONCRETE PAVEMENT, ALLEY SECTION</b> <b>WIDTH 16.2m (53') TO 21m (69')</b>		RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75			 3/01/2003 Chairperson R.C.E. 19246 Date
Add Metric		T. Stanton	03/03			DRAWING NUMBER <b>G-20</b>
Reviewed		T. Stanton	04/06			



SECTION

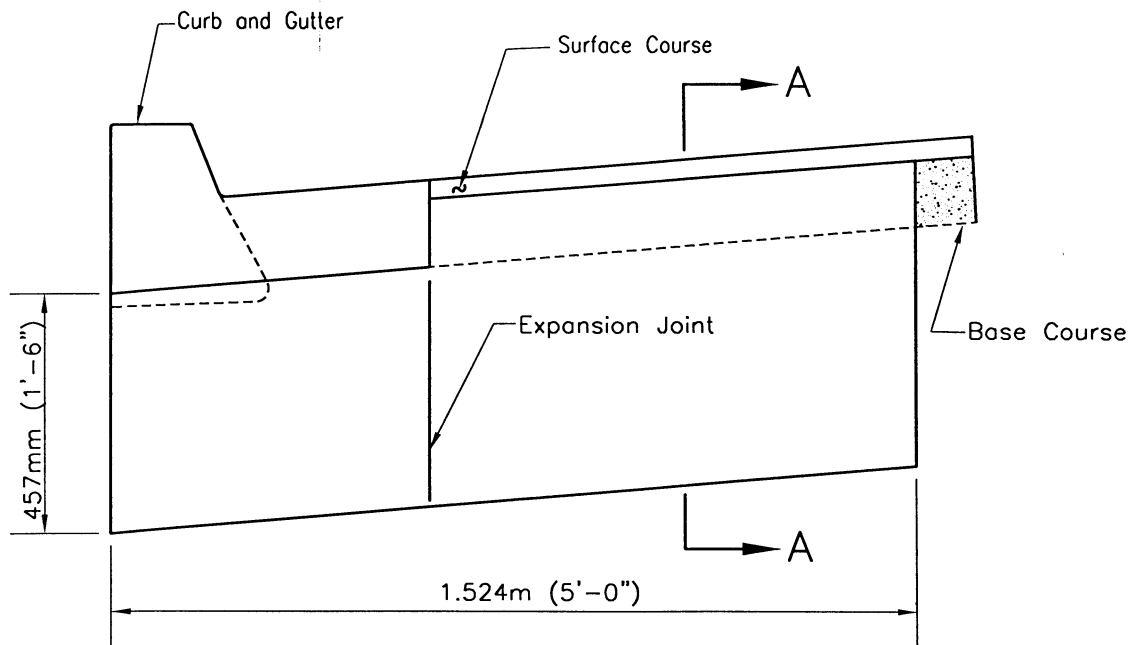


PLAN

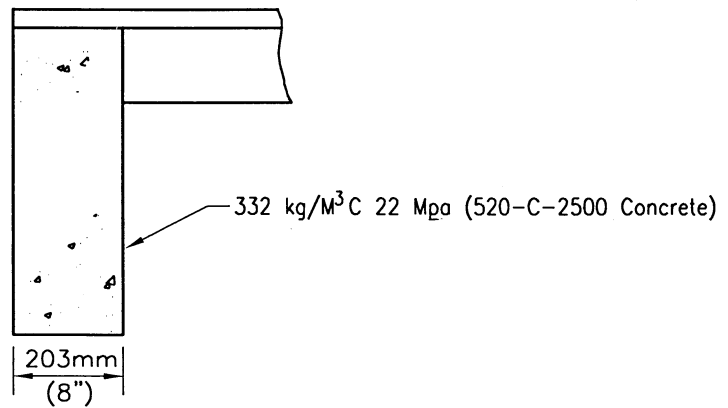
NOTES:

1. Concrete shall be 332 kg/M<sup>3</sup> C 22 Mpa (560-C-3250).
2. See Standard Drawing G-10 for joint details.
3. Adjust 4.57m (15') interval between Transverse Joints to match adjacent existing improvements.

Revision	By	Approved	Date	<b>SAN DIEGO REGIONAL STANDARD DRAWING</b>  <b>CONCRETE PAVEMENT ALLEY SECTION,</b> <b>WIDTH 12.2m (40') OR LESS</b>		RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75			<i>T. Stanton</i> 3/01/2003
Add Metric		T. Stanton	03/03			Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06			DRAWING NUMBER <b>G-21</b>



ELEVATION

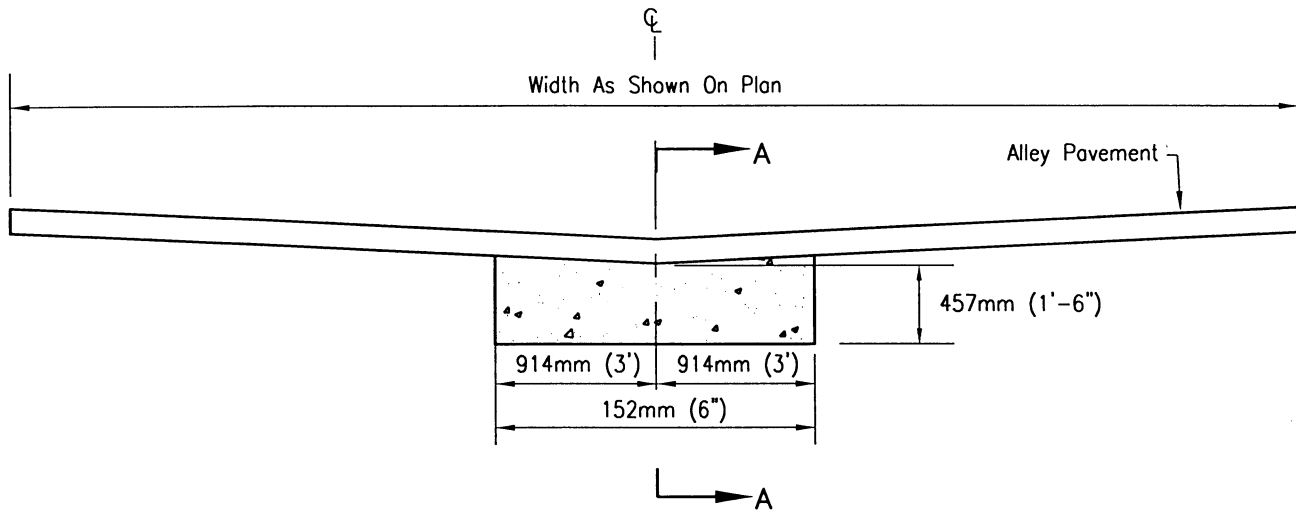


SECTION A-A

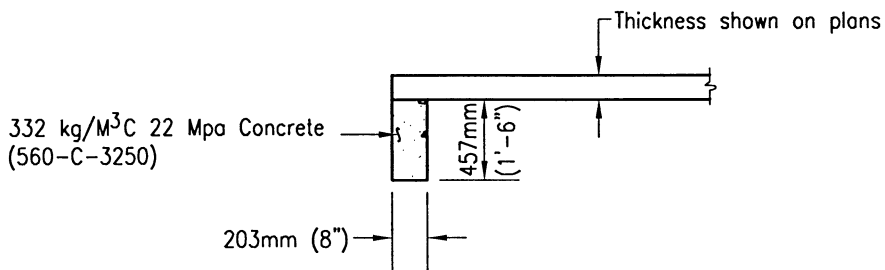
LEGEND ON PLANS



Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING		RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Kercheval	12/75			
Add Metric		T. Stanton	03/03	CUTOFF WALL AT END OF PAVEMENT		<i>T. Stanton</i> 3/01/2003
Reviewed		T. Stanton	04/06			Chairperson R.C.E. 19246 Date
						DRAWING NUMBER
						G-22



ELEVATION



SECTION A-A

LEGEND ON PLANS



Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

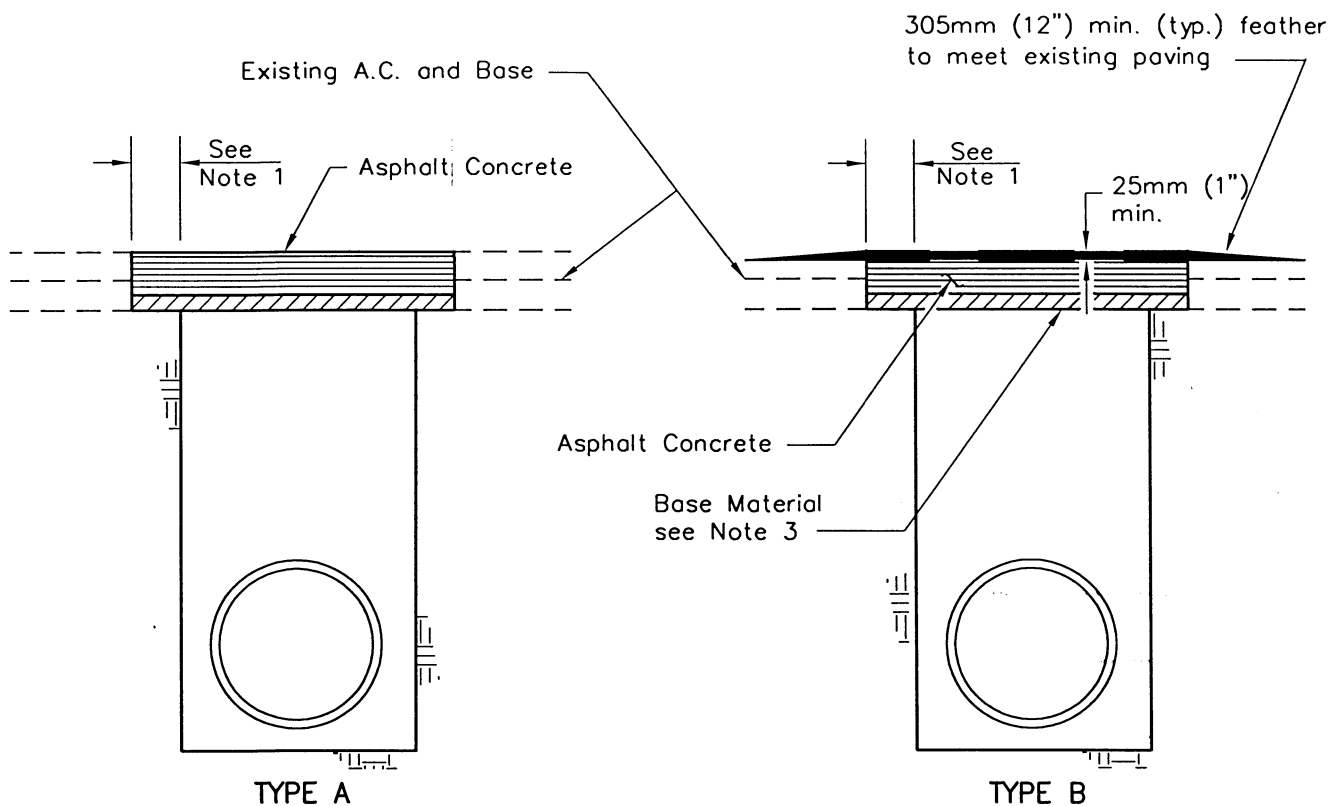
SAN DIEGO REGIONAL STANDARD DRAWING

# CUTOFF WALL AT END OF ALLEY PAVEMENT

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

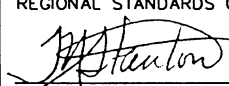
*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-23**

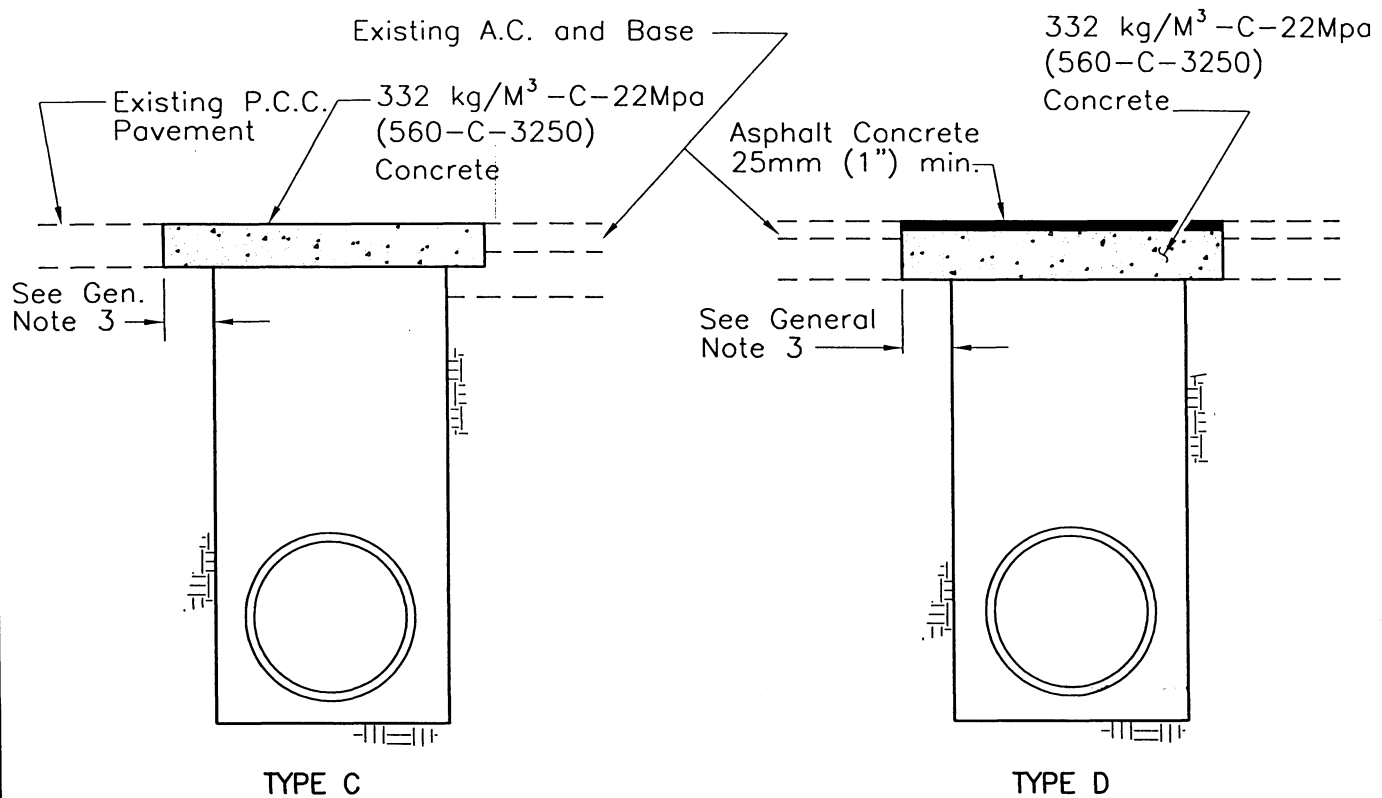


#### NOTES:

1. Trench edges to be cut a minimum of 152mm (6") wider than trench for 914mm (3') wide or less, and 305mm (12") wider for trenches over 914mm (3') wide.
2. Existing A.C. shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent pavement. Edges shall be clean and vertical. All cuts shall be parallel or perpendicular to street centerline, when practical.
3. Base material shall be replaced to depth of existing base. A.C. may be substituted for base material.
4. A tack coat of asphaltic emulsion or paving asphalt shall be applied to existing A.C. or P.C.C. contact surfaces, prior to resurfacing.
5. Asphalt Concrete Resurfacing:
  - a) Minimum total thickness shall be one inch greater than existing A.C.
  - b) A.C. shall be hot plant mix.
  - c) Finish course for Type B resurfacing shall be laid down using a spreader box.
6. All A.C. resurfacing shall be seal coated with an emulsified asphalt and covered with sand. Chip sealing shall be applied as required by Agency.
7. Type B shall not be used on lateral crossings.
8. Sloughing of trench under pavement shall be cause for requiring additional pavement and base.

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Parkinson	2/95		 3/01/2003
Add Metric		T. Stanton	03/03	Chairperson R.C.E. 19246 Date	
Reviewed		T. Stanton	04/06		
				TRENCH RESURFACING TYPES A & B	DRAWING NUMBER
					G-24





#### GENERAL NOTES:

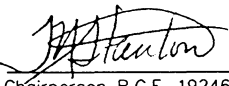
- Existing A.C. shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent pavement. Edges shall be clean and vertical. All cuts shall be parallel or perpendicular to street centerline, when practical.
- Sloughing of trench under pavement shall be cause for requiring additional pavement and base.
- Trench edges to be cut a minimum of 152mm (6") wider than trench for 914mm (3') wide or less, and 305mm (12") wider for trenches over 914mm (3') wide.

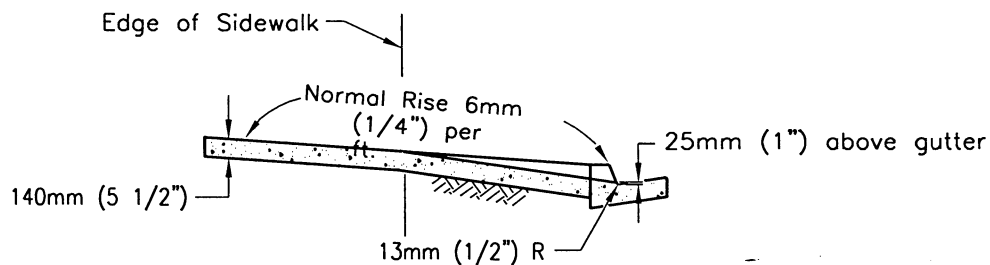
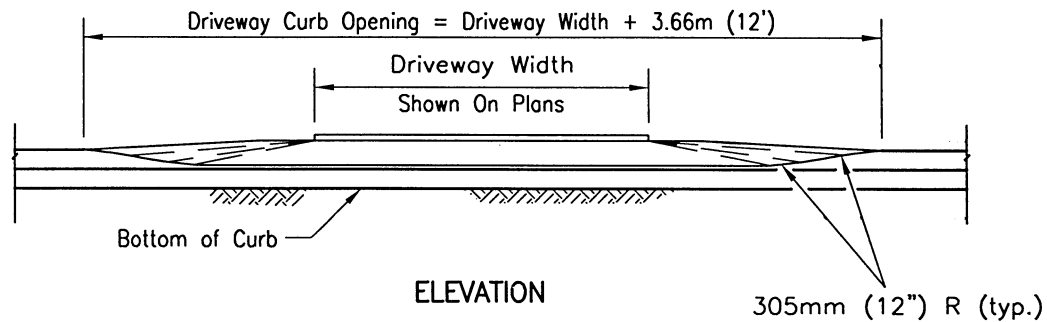
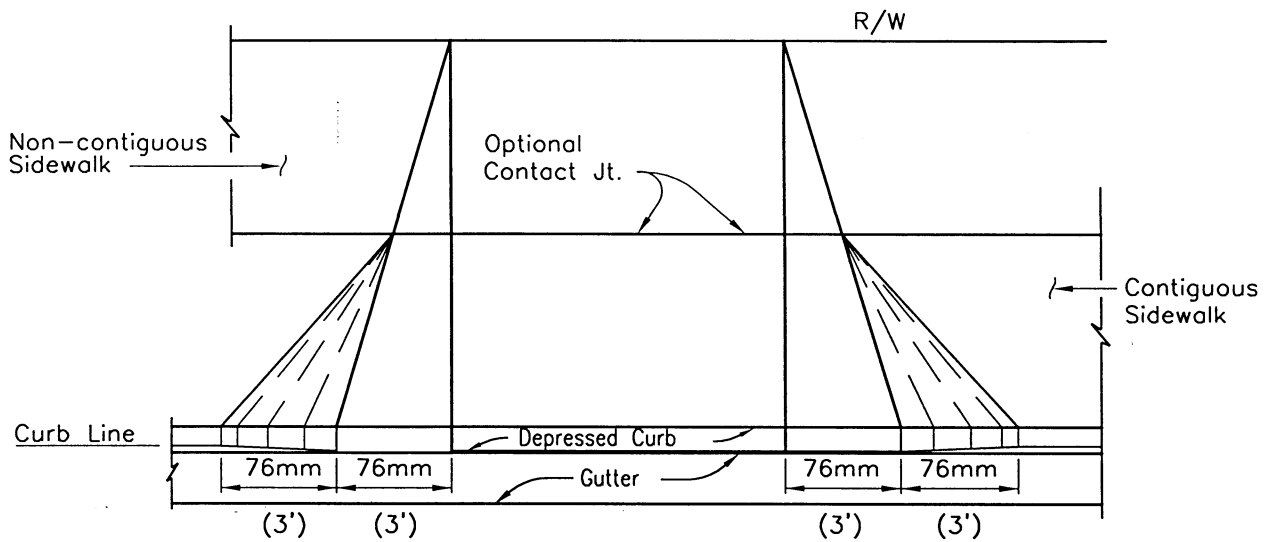
#### NOTES TYPE-C:

- Concrete shall be colored black where required to match existing pavement, method to be specified by Agency.
- Minimum concrete thickness:  
 Alleys and local residential street -----127mm (5")  
 Major streets and highway -----178mm (7")  
 Trench resurfacing in P.C.C. pavement shall have the above minimum thickness or match the existing concrete thickness plus one inch, whichever is greater.

#### NOTES TYPE-D:

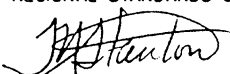
- A.C. shall be hot plant mix.
- A tack coat of asphaltic emulsion or paving asphalt shall be applied to the existing A.C. at all contact surfaces and to portland cement concrete prior to placing new A.C.
- A.C. resurfacing shall be seal coated with an emulsified asphalt and covered with sand. Chip sealing shall be applied as required by Agency.

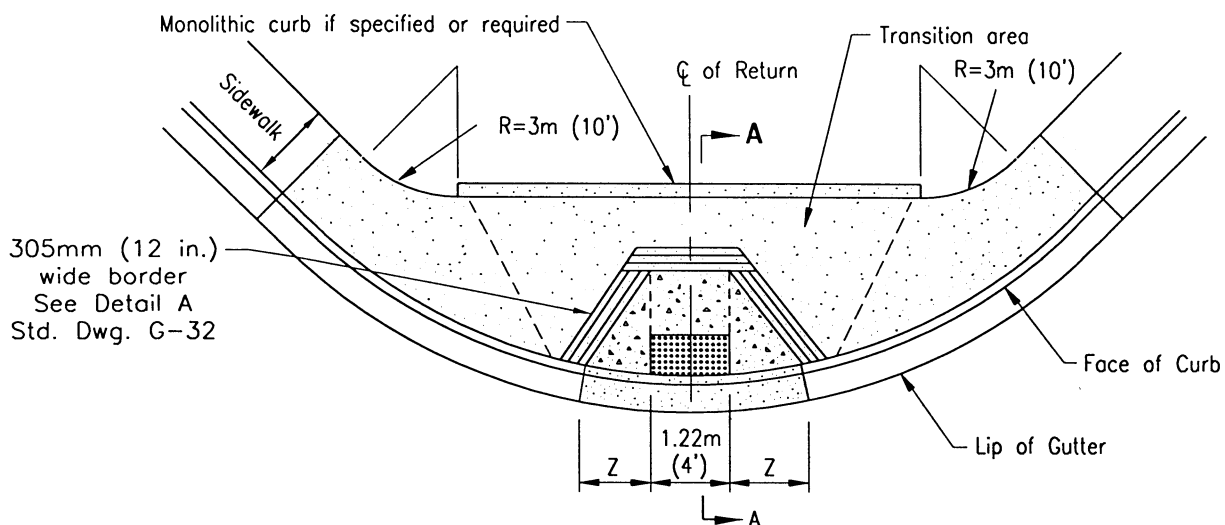
Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Parkinson	2/95		
Add Metric		T. Stanton	03/03	TRENCH RESURFACING TYPES C & D	 3/01/2003 Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		
					DRAWING NUMBER <b>G-25</b>



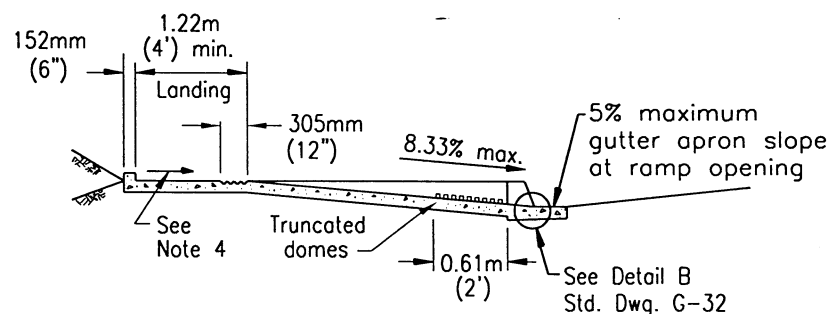
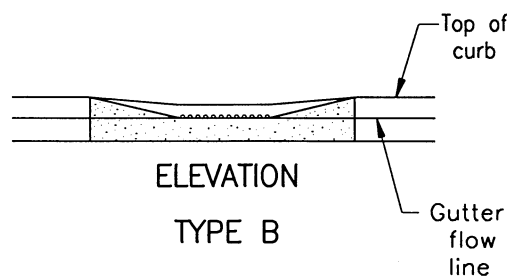
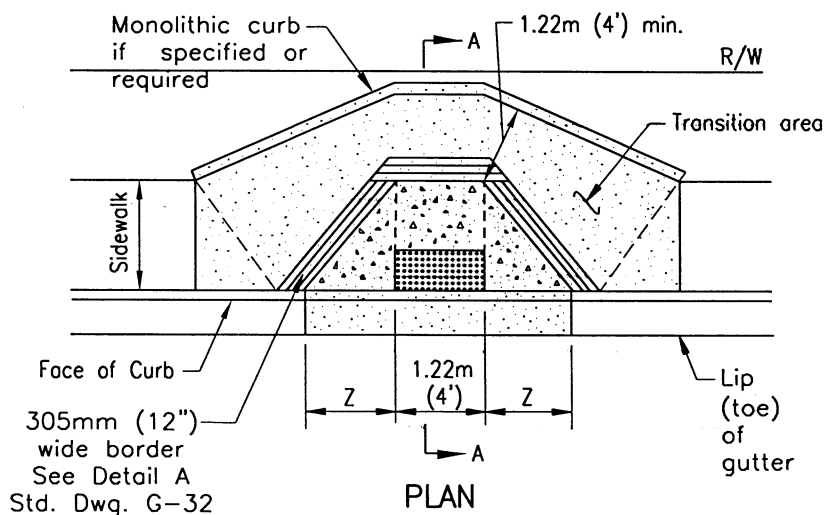
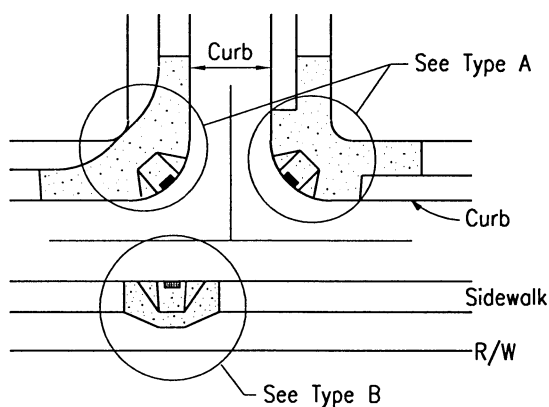
#### NOTES:

1. No concrete shall be placed until forms and subgrade are inspected by the Agency.
2. Concrete shall be 308 kg/M<sup>3</sup> C 17 Mpa (520-C-2500.)
3. See Standard Drawings G-15 and G-16 for width and location requirements
4. Driveway ramp to extend to 3m (10') from curb face or to property line whichever is less. (For commercial driveways only)
5. See Standard Drawings G-2 and G-10 for curb and joint details.

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		H. Hecht	10/82		
Add Metric		T. Stanton	03/03	<b>CONCRETE DRIVEWAY COMMERCIAL ALTERNATE</b>	 3/10/2003 Chairperson R.C.E. 19246 Date
Reviewed		T. Stanton	04/06		DRAWING NUMBER <b>G-26</b>



PLAN - TYPE A



SECTION A-A

NOTES:

1. See Drawing G-32 for general notes.
2. For truncated domes details, please see Drawing G-30.
3. Z side slope shall be 10:1.
4. Landing cross slope shall be 2.0% max. in both directions.

Revision	By	Approved	Date
ORIGINAL		M. Bahmanian	4/86
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04
Revised		T. Stanton	04/06

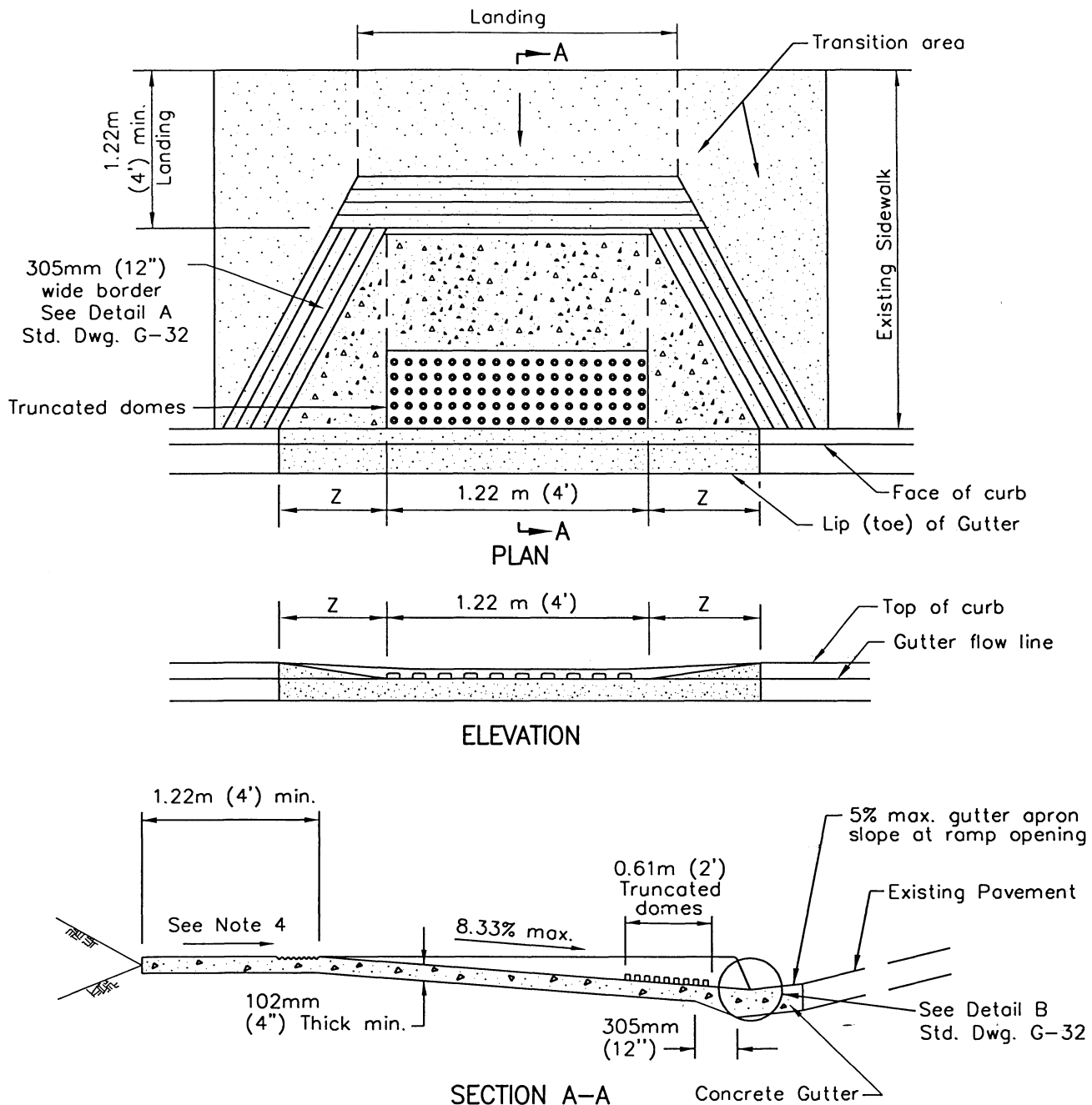
SAN DIEGO REGIONAL STANDARD DRAWING

CURB RAMP - TYPES A AND B  
(NEW CONSTRUCTION)

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 12-09-2004  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-27**



#### NOTES:

1. See Standard Drawing G-32 for general notes.
2. Type A-1 is a designation for ramp at curb return.
3. Type B-1 is a designation for ramp at straight curb (shown above).
4. Landing cross slope shall be 2.0% max. in both directions.
5. For truncated domes details, please see Standard Drawing G-30.
6. Z side slope shall be 10:1.

Revision	By	Approved	Date
ORIGINAL		M. Bahmanian	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04
Revised		T. Stanton	04/06

#### SAN DIEGO REGIONAL STANDARD DRAWING

### CURB RAMP - TYPES A-1 AND B-1 (FOR EXISTING SIDEWALK)

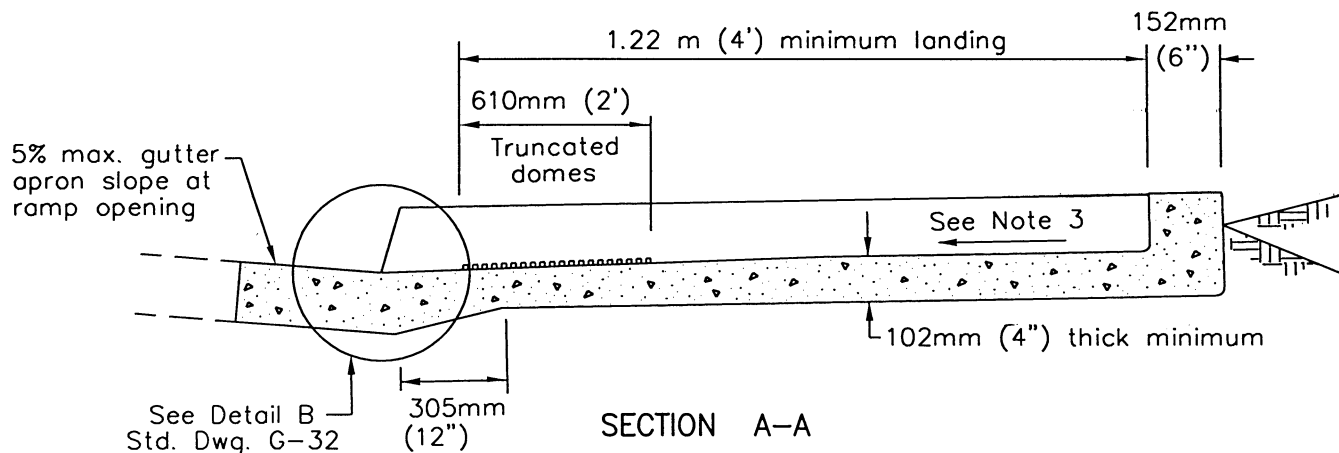
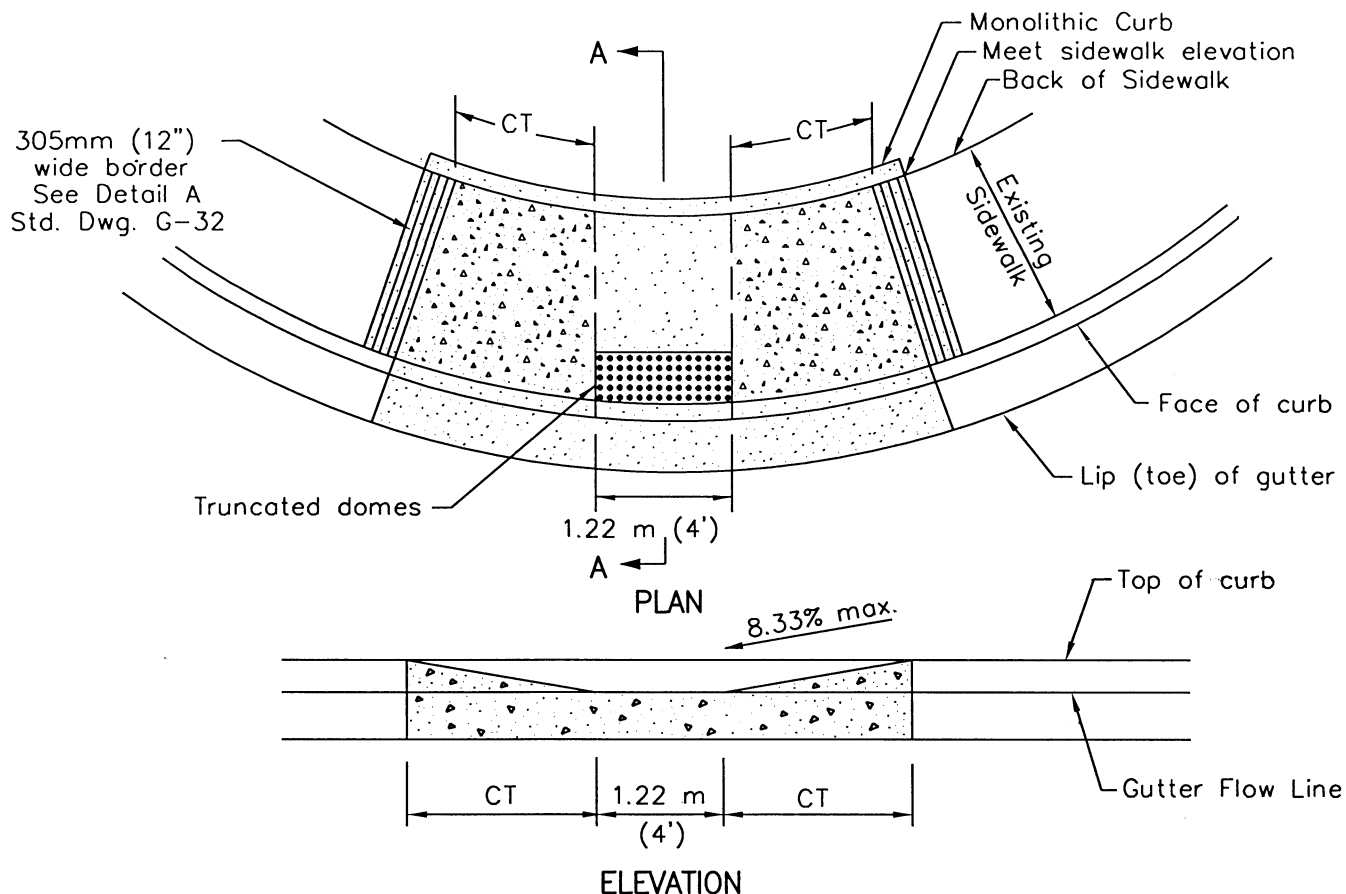
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 12-09-2004

Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER

**G-28**



#### NOTES:

1. Type C ramps are only to be used to mitigate existing conditions where inadequate right of way exists to use Standard Drawing G-28, and are not to be used in new construction.
2. See Standard Drawing G-32 for general notes.
3. Landing cross slope shall be 2.0% max. in both directions.
4. For truncated domes, please see Standard Drawing G-30.
5. CT Curve Transition slope shall be 8.33% maximum.

Revision	By	Approved	Date
ORIGINAL		R. Munoz	5/97
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04
Revised		T. Stanton	04/06

#### SAN DIEGO REGIONAL STANDARD DRAWING

### CURB RAMP - TYPE C (FOR EXISTING SIDEWALK)

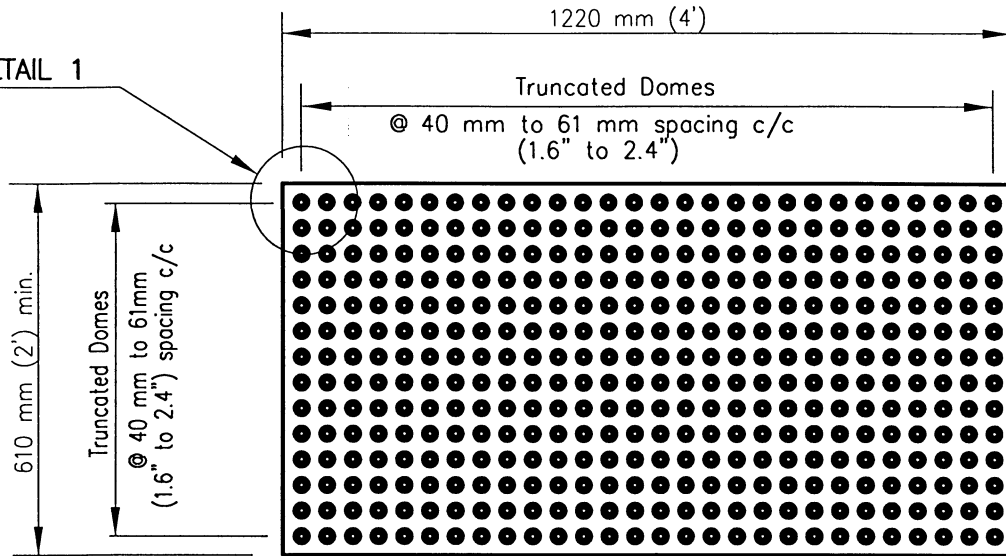
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 12-09-2004  
Chairperson R.C.E. 19246 Date

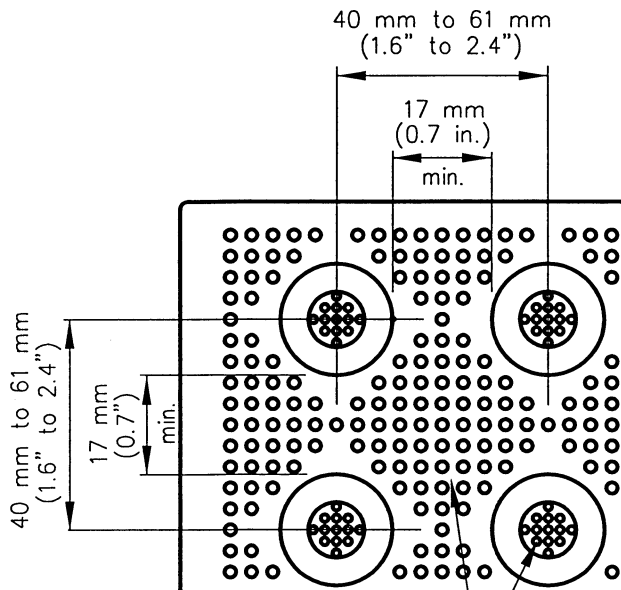
DRAWING  
NUMBER

**G-29**

DETAIL 1

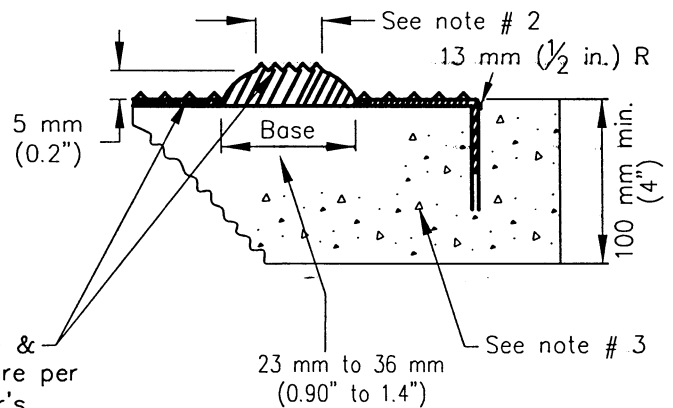


PLAN — TILE  
NOT TO SCALE



DETAIL 1  
NOT TO SCALE

Note:  
Pattern, size &  
orientation are per  
manufacturer's  
recommendation



NOTES:

1. Detectable warning surface color shall be yellow conforming to federal standards 595B Table IV, color No. 33538, or as specified by the agency. Color shall be homogeneous throughout the tile.
2. Truncated dome top diameter of 50% of the base diameter minimum to 65% of the base diameter maximum.
3. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external forces placed on the tile to rock the tile, causing a void between the underside of tile and concrete.

Revision	By	Approved	Date
ORIGINAL	G. Parkinson		2/95
Add-Metric	T. Stanton		03/03
UPDATE	D. Davies		12/04

SAN DIEGO REGIONAL STANDARD DRAWING

TRUNCATED DOMES

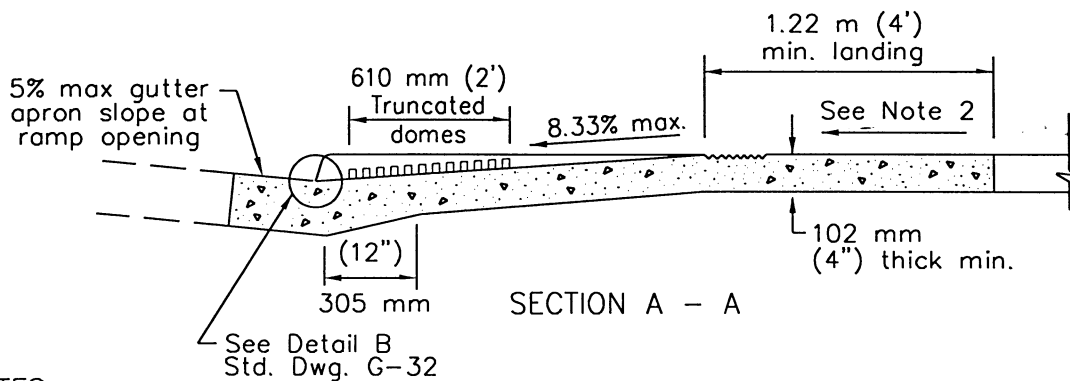
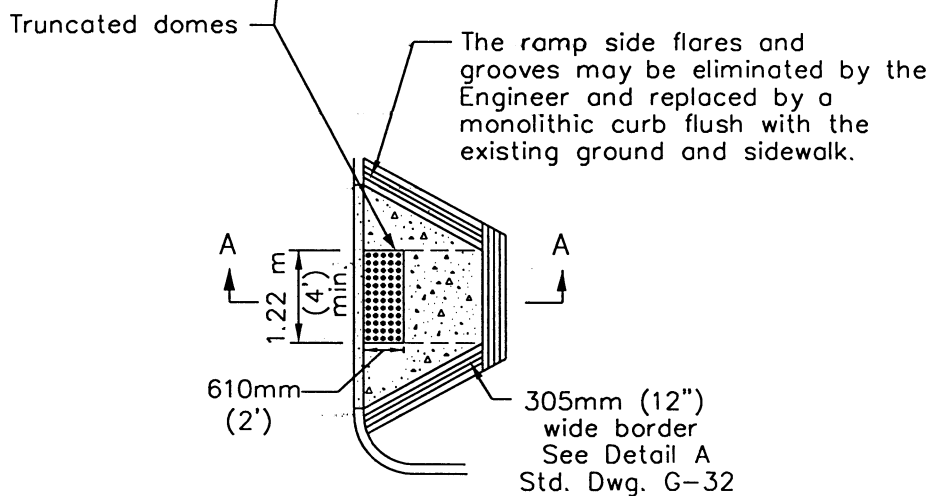
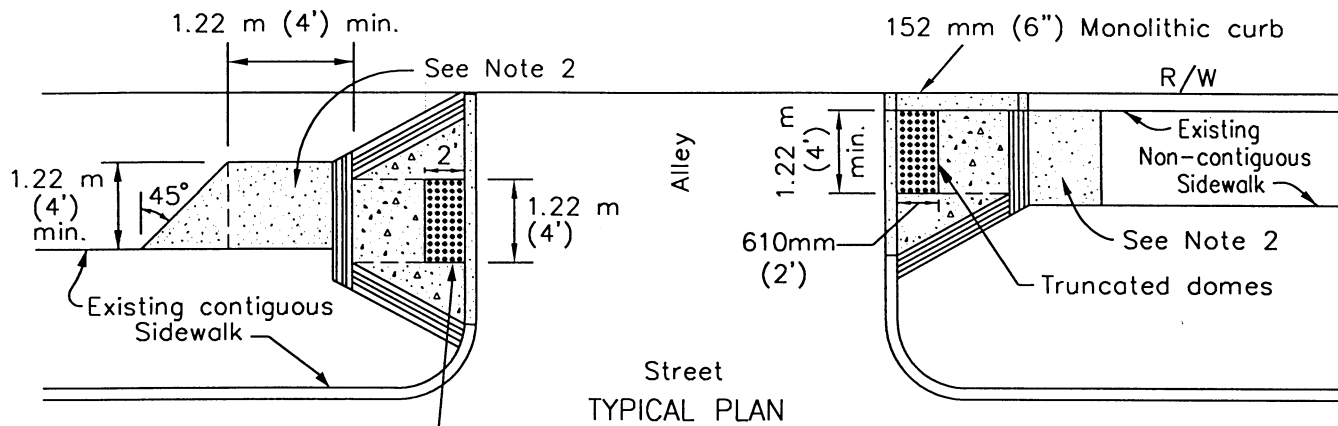
RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

*T. Stanton* 12-09-2004

Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER

G-30



# NOTES

1. See Standard Drawing G-32 for general notes.
2. Landing cross slope shall be 2.0% max. in both directions.
3. For truncated domes details, see Standard Drawing G-30.

Revision	By	Approved	Date
ORIGINAL		G. Parkinson	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04
Revised		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

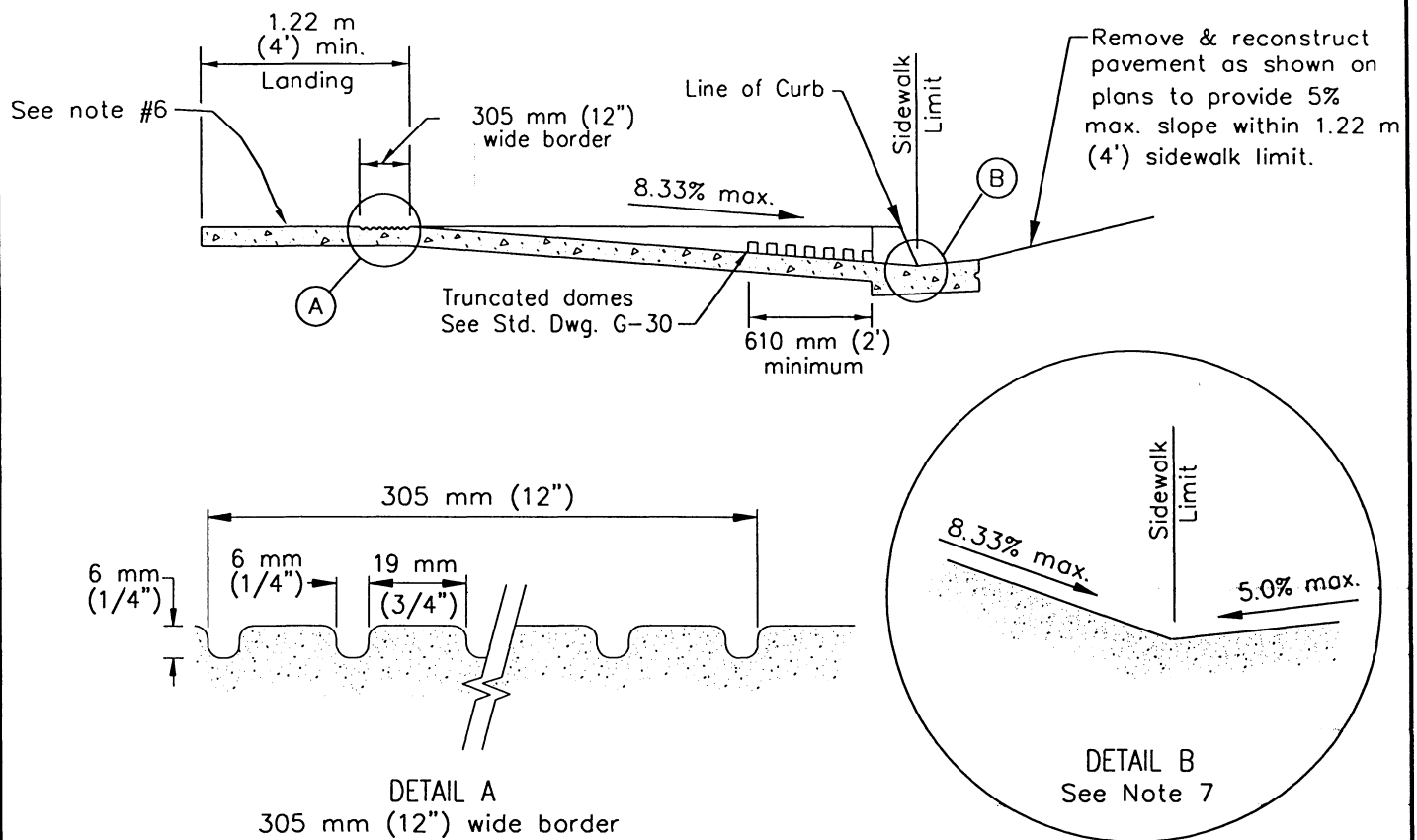
## CURB RAMP - TYPE D

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

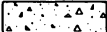
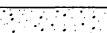
*T. Stanton* 12-09-2004  
Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-31**

SEE SDG-100 & USE SDG-136



## NOTES

1. The removal of existing concrete curb, gutter, sidewalk and pavement for pedestrian ramp installation shall comply with Standard Drawing G-11. For construction of Curb Ramps on existing sidewalks, removal of additional sidewalk maybe required to comply with ADA requirements to meet the existing grade.
2. Areas shown thus:  shall have a medium to heavy broom texture finish, perpendicular to the axis of the ramp.
3. Areas shown thus:  are the minimum required for a complete ramp installation and shall be concrete class 520-C-2500.
4. If obstructions such as inlets, utility poles, fire hydrants, etc., are encountered, the ramp locations may be adjusted upon the approval of the Resident Engineer, or Local Agency Inspector.
5. The ramp slopes will be measured relative to the sidewalk slope. Adjoining slope beyond ramp shall not exceed 20:1 (5%).
6. Landing cross slope shall be 2.0% max. in both directions.
7. All projects (new construction & alteration), the lower end of 1.22 m (48 in.) width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement surface.
8. There shall be no more than 203.2 mm (8 in.) separation between the face of the curb and any given point on the nearest edge of the truncated domes.

Revision	By	Approved	Date
ORIGINAL		G. Parkinson	2/95
Add Metric		T. Stanton	03/03
UPDATE		D. Davies	12/04
Revised		T. Stanton	04/06

## SAN DIEGO REGIONAL STANDARD DRAWING

## GENERAL NOTES FOR CURB RAMPS

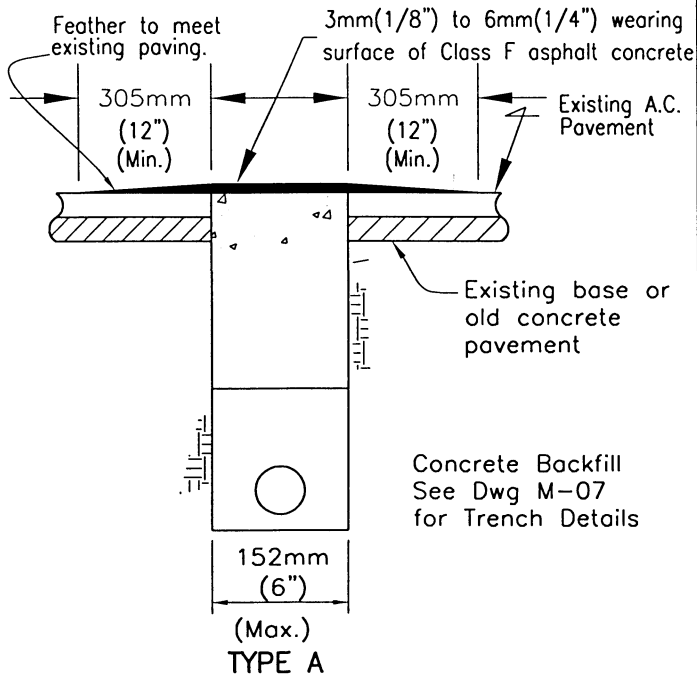
RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

*T. Stanton* 12-09-2004

Chairperson R.C.E. 19246 Date

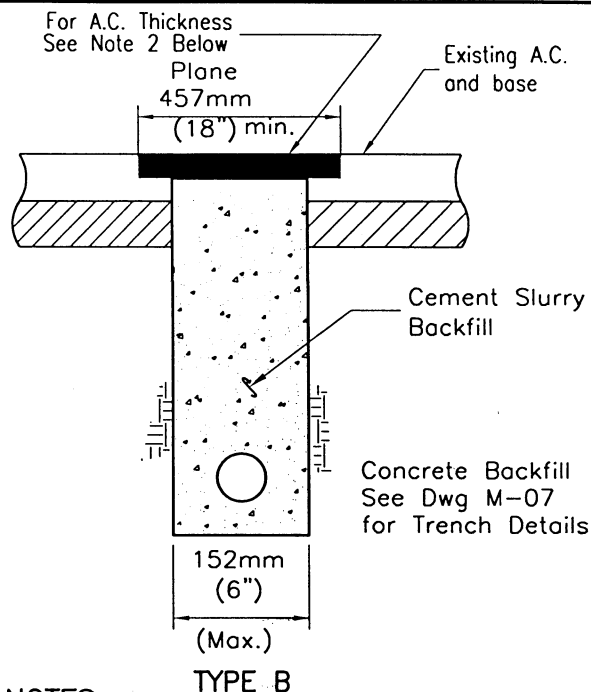
DRAWING NUMBER **G-32**





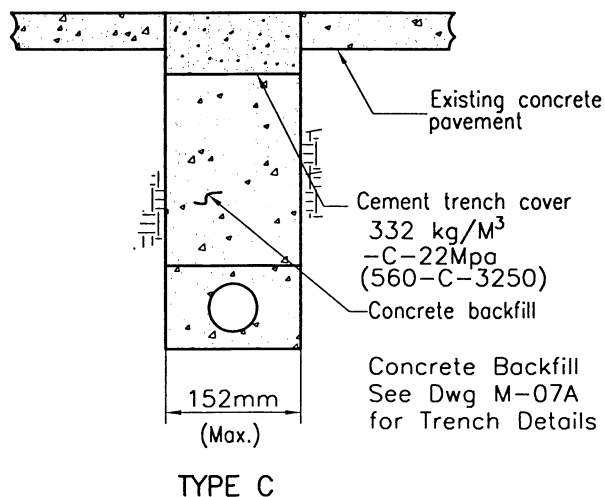
#### NOTES:

1. Concrete shall be screeded off to match pavement grade and floated to assure proper edge match.
2. A tack coat shall be applied to the concrete and existing asphalt pavement prior to placing the new asphalt pavement wearing surface.
3. Existing A.C. pavement will not require saw cutting when using rockwheel for excavation.
4. Allow concrete backfill to cure for seven prior to paving operation



#### NOTES:

1. A tack coat shall be applied to the cement slurry backfill and existing asphalt pavement prior to placing the new asphalt surface.
2. Asphaltic Concrete Resurfacing:
  - a. Allow cement slurry backfill seven days minimum to cure before planing.
  - b. Thickness of Asphaltic Concrete shall be a minimum of 51mm (2") or as specified by the Agency's engineer.
  - c. A.C. shall be hot mix.
3. A.C. shall be sealed or chip sealed when required by the Agency's Engineer.



#### NOTES:

1. Concrete shall be screeded off to match existing pavement grade and floated to assure proper edge match.
2. Concrete trench cover shall be a minimum of 140mm (5 1/2") thick in alley or local residential streets and 178mm (7") thick in all other streets.
3. Existing concrete pavement will require sawcutting when using rockwheel for excavation.
4. In major or prime arterial streets, an approved set accelerating admixture, such as Calcium Chloride, may be used only with prior approval of the Agency's engineer.

Revision	By	Approved	Date
ORIGINAL	HH	T. Stanton	11/02
Add Metric		T. Stanton	03/03
Reviewed		T. Stanton	04/06

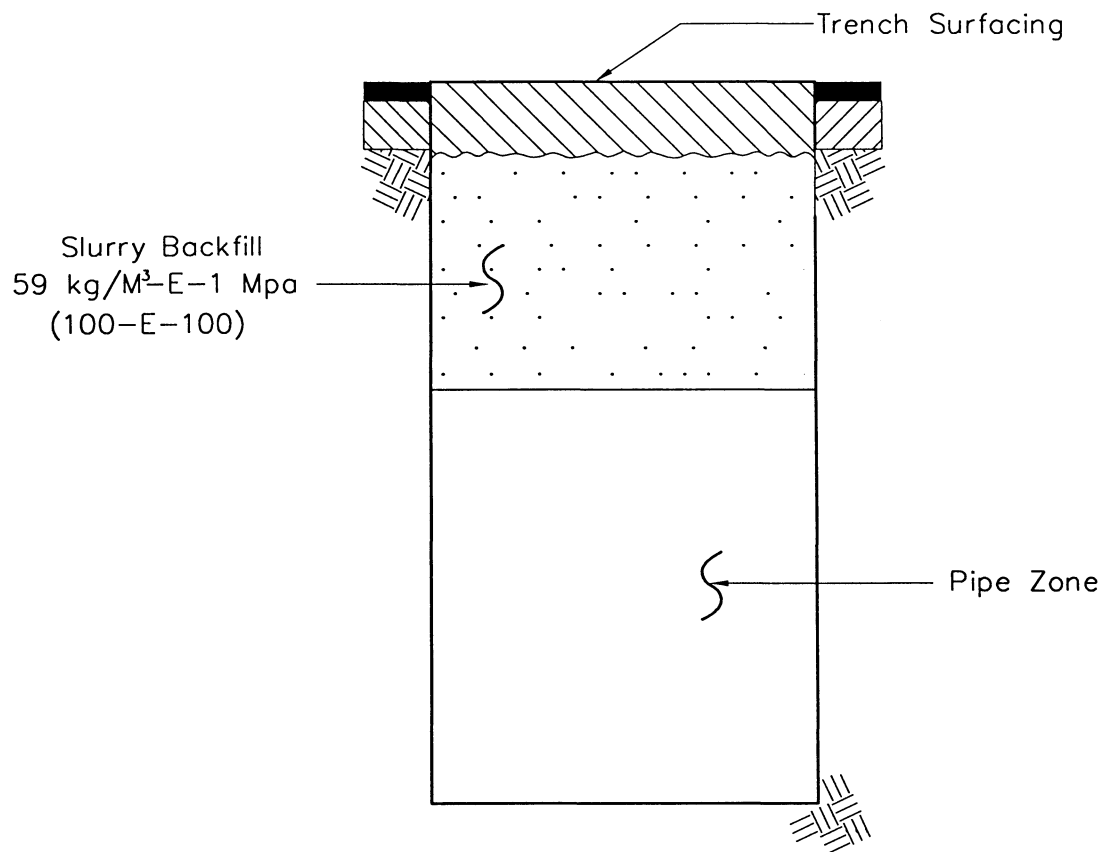
#### SAN DIEGO REGIONAL STANDARD DRAWING

### NARROW TRENCHES TRENCHING & BACKFILLING

RECOMMENDED BY THE SAN DIEGO  
REGIONAL STANDARDS COMMITTEE

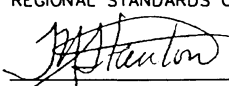
*T. Stanton* 3/01/2003  
Chairperson R.C.E. 19246 Date

DRAWING  
NUMBER **G-33**



#### NOTES

1. Trench resurfacing shall be done according to governmental (permitting) agency's requirements.
2. The sand used for the slurry backfill shall meet the requirements for fine aggregate (subsection 400-1.3) listed in the Standard Specifications for Public Works Construction. Slurry must be firm prior to trench resurfacing.
3. Slurry backfill shall not be used where it will impede subsurface drainage.

Revision	By	Approved	Date	SAN DIEGO REGIONAL STANDARD DRAWING	RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
ORIGINAL		Parkinson	9/88		 3/01/2003 Chairperson R.C.E. 19246 Date
Add Metric		T. Stanton	03/03		
Reviewed		T. Stanton	04/06		
				SLURRY BACKFILL	DRAWING NUMBER
					G-36

